

Multilayer Ferrite Chip Beads

SB/PB/UP/NB/GB Series

[SB Series for General Purpose / PB Series for Large Current/UP Series for Ultra High Current Use/NB Series for Data Line, Digital Signals, etc./GB Series for Medium Current]

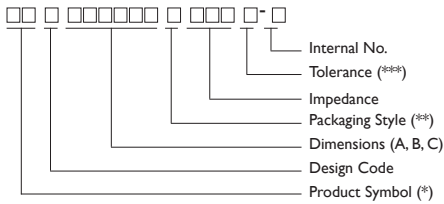


OUTLINE

Yageo offers hundreds of multi-layered ferrite chip beads with various sizes, frequency characteristics, and a board range of impedance values to provide powerful solutions for EMI problems.

Three formulas of ferrite comprise several types of EMI suppression chip beads that are classified into 5 categories - SB, GB, PB, UP, and NB series.

PRODUCT IDENTIFICATION



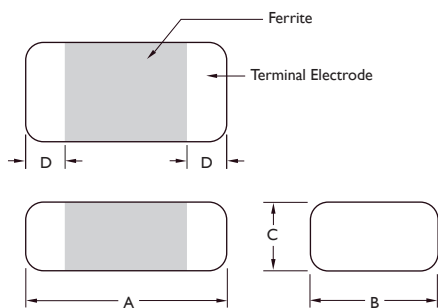
* SB, PB, UP, NB, GB
** T :Tape and Reel; B : Bulk
*** Y = ±25%; M = ±20%

■ YAGEO will start to release lead-free that meet SONY SS-00259's criteria, and Internal No. will be changed to "N" as identification.

Ex. SBY100505T-121Y-N

SHAPES AND DIMENSIONS

Dimensions : mm



| TYPE | | A | B | C | D |
|----------------|--------|------------|-------------|------------|-------------|
| SB/PB/NB | 100505 | 1.0 ± 0.10 | 0.50 ± 0.10 | 0.5 ± 0.10 | 0.25 ± 0.10 |
| SB/PB/UP/NB/GB | 160808 | 1.6 ± 0.20 | 0.80 ± 0.2 | 0.8 ± 0.2 | 0.3 ± 0.2 |
| SB/PB/UP/NB/GB | 201209 | 2.0 ± 0.20 | 1.25 ± 0.20 | 0.9 ± 0.20 | 0.5 ± 0.3 |
| SB/PB/UP/NB/GB | 321611 | 3.2 ± 0.20 | 1.60 ± 0.20 | 1.1 ± 0.20 | 0.5 ± 0.3 |
| SB/GB | 321616 | 3.2 ± 0.20 | 1.60 ± 0.20 | 1.6 ± 0.20 | 0.5 ± 0.3 |
| SB/GB | 322513 | 3.2 ± 0.20 | 2.50 ± 0.20 | 1.3 ± 0.20 | 0.5 ± 0.3 |
| SB/PB/GB | 451616 | 4.5 ± 0.25 | 1.60 ± 0.20 | 1.6 ± 0.20 | 0.5 ± 0.3 |
| SB/PB/GB | 453215 | 4.5 ± 0.25 | 3.20 ± 0.20 | 1.5 ± 0.20 | 0.5 ± 0.3 |



SB SERIES, FOR GENERAL USE

APPLICATIONS

I/O Ports, DC Power Lines, and Signal Lines

Computer and Peripheral Products

Consumer Electronic Products

FEATURES

Standard type used to suppress lower-frequency, lower current signals.

Impedance over a Broad Frequency Range

Suitable for Flow and Reflow Soldering

Available in 8 Sizes

ELECTRICAL CHARACTERISTICS

| PART NO. | IMPEDANCE at 100MHz ($\Omega \pm 25\%$) | DC RESISTANCE (Ω) Max. | RATED CURRENT (mA) Max. | PART NO. | IMPEDANCE at 100MHz ($\Omega \pm 25\%$) | DC RESISTANCE (Ω) Max. | RATED CURRENT (mA) Max. |
|-------------------|---|---------------------------------------|-------------------------------|-------------------|---|---------------------------------------|-------------------------------|
| SBY100505T-060Y-S | 6 | 0.05 | 500 | SBK201209T-751Y-S | 750 | 0.50 | 200 |
| SBY100505T-100Y-S | 10 | 0.05 | 500 | SBK201209T-102Y-S | 1000 | 0.50 | 200 |
| SBY100505T-400Y-S | 40 | 0.30 | 300 | SBK201209T-152Y-S | 1500 | 0.60 | 200 |
| SBY100505T-800Y-S | 80 | 0.40 | 200 | SBK201209T-202Y-S | 2000 | 0.80 | 100 |
| SBY100505T-121Y-S | 120 | 0.50 | 200 | SBK201209T-222Y-S | 2200 | 1.00 | 100 |
| SBY100505T-241Y-S | 240 | 0.50 | 200 | SBK201209T-252Y-S | 2500 | 1.00 | 100 |
| SBY100505T-481Y-S | 480 | 0.80 | 200 | SBK201209T-272Y-S | 2700 | 1.50 | 100 |
| SBY100505T-601Y-S | 600 | 1.00 | 200 | SBY321611T-190Y-S | 19 | 0.05 | 600 |
| SBY100505T-102Y-S | 1000 | 1.50 | 100 | SBY321611T-260Y-S | 26 | 0.05 | 600 |
| SBY100505T-152Y-S | 1500 | 2.00 | 60 | SBY321611T-320Y-S | 32 | 0.05 | 600 |
| SBK160808T-110Y-S | 11 | 0.05 | 500 | SBY321611T-500Y-S | 50 | 0.10 | 500 |
| SBK160808T-190Y-S | 19 | 0.08 | 500 | SBY321611T-600Y-S | 60 | 0.10 | 500 |
| SBK160808T-300Y-S | 30 | 0.10 | 400 | SBK321611T-700Y-S | 70 | 0.10 | 500 |
| SBK160808T-400Y-S | 40 | 0.10 | 400 | SBK321611T-900Y-S | 90 | 0.15 | 500 |
| SBK160808T-600Y-S | 60 | 0.10 | 300 | SBK321611T-121Y-S | 120 | 0.15 | 500 |
| SBK160808T-800Y-S | 80 | 0.15 | 300 | SBK321611T-151Y-S | 150 | 0.15 | 500 |
| SBK160808T-121Y-S | 120 | 0.25 | 300 | SBK321611T-201Y-S | 200 | 0.20 | 400 |
| SBK160808T-221Y-S | 220 | 0.30 | 200 | SBK321611T-401Y-S | 400 | 0.20 | 400 |
| SBK160808T-301Y-S | 300 | 0.40 | 200 | SBK321611T-501Y-S | 500 | 0.20 | 400 |
| SBK160808T-451Y-S | 450 | 0.50 | 200 | SBK321611T-601Y-S | 600 | 0.30 | 400 |
| SBK160808T-601Y-S | 600 | 0.50 | 200 | SBK321611T-102Y-S | 1000 * | 0.40 | 200 |
| SBK160808T-751Y-S | 750 | 0.70 | 200 | SBK321611T-122Y-S | 1200 * | 0.40 | 200 |
| SBK160808T-102Y-S | 1000 | 0.70 | 200 | SBK321611T-152Y-S | 1500 * | 0.45 | 200 |
| SBK160808T-152Y-S | 1500 | 1.00 | 50 | SBK321611T-202Y-S | 2000 ** | 0.60 | 200 |
| SBK160808T-222Y-S | 2200 | 1.20 | 50 | SBK321611T-272Y-S | 2700 ** | 0.60 | 200 |
| SBK160808T-272Y-S | 2700 | 1.30 | 50 | SBY321616T-250Y-S | 25 | 0.10 | 500 |
| SBY201209T-070Y-S | 7 | 0.10 | 600 | SBY321616T-600Y-S | 60 | 0.20 | 500 |
| SBY201209T-090Y-S | 9 | 0.10 | 600 | SBK321616T-700Y-S | 70 | 0.20 | 500 |
| SBY201209T-110Y-S | 11 | 0.10 | 600 | SBY322513T-320Y-S | 32 | 0.20 | 500 |
| SBY201209T-170Y-S | 17 | 0.10 | 600 | SBY322513T-600Y-S | 60 | 0.20 | 500 |
| SBY201209T-320Y-S | 32 | 0.10 | 600 | SBY322513T-900Y-S | 90 | 0.20 | 500 |
| SBK201209T-600Y-S | 60 | 0.15 | 500 | SBY451616T-500Y-S | 50 | 0.20 | 600 |
| SBK201209T-700Y-S | 70 | 0.15 | 500 | SBY451616T-600Y-S | 60 | 0.20 | 600 |
| SBK201209T-800Y-S | 80 | 0.15 | 500 | SBY451616T-800Y-S | 80 | 0.20 | 600 |
| SBK201209T-121Y-S | 120 | 0.25 | 300 | SBY451616T-101Y-S | 100 | 0.30 | 500 |
| SBK201209T-151Y-S | 150 | 0.25 | 300 | SBK451616T-151Y-S | 150 | 0.30 | 500 |
| SBK201209T-221Y-S | 220 | 0.30 | 300 | SBK451616T-171Y-S | 170 | 0.30 | 500 |
| SBK201209T-301Y-S | 300 | 0.30 | 300 | SBY453215T-700Y-S | 70 | 0.30 | 500 |
| SBK201209T-401Y-S | 400 | 0.30 | 300 | SBY453215T-121Y-S | 120 | 0.30 | 500 |
| SBK201209T-501Y-S | 500 | 0.40 | 300 | | | | |
| SBK201209T-601Y-S | 600 | 0.40 | 300 | | | | |

Note : * at 50MHz ** at 30MHz



LEAD-FREE & ROHS COMPLIANCE

| PART NO. | IMPEDANCE | RDC | RATED CURRENT | PART NO. | IMPEDANCE | RDC | RATED CURRENT |
|-------------------|-----------------------|-------------------|---------------|-------------------|-----------------------|-------------------|---------------|
| | ($\Omega \pm 25\%$) | (Ω) Max. | (mA) Max. | | ($\Omega \pm 25\%$) | (Ω) Max. | (mA) Max. |
| SBY100505T-060□-N | 6 | 0.05 | 500 | SBK160808T-501□-N | 500 | 0.5 | 200 |
| SBY100505T-100□-N | 10 | 0.05 | 500 | SBK160808T-601□-N | 600 | 0.5 | 200 |
| SBY100505T-300□-N | 30 | 0.3 | 300 | SBK160808T-751□-N | 750 | 0.7 | 200 |
| SBY100505T-400□-N | 40 | 0.3 | 300 | SBK160808T-102□-N | 1000 | 0.7 | 200 |
| SBY100505T-470□-N | 47 | 0.4 | 200 | SBK160808T-122□-N | 1200 | 1 | 50 |
| SBY100505T-600□-N | 60 | 0.4 | 200 | SBK160808T-152□-N | 1500 | 1 | 50 |
| SBY100505T-700□-N | 70 | 0.4 | 200 | SBK160808T-202□-N | 2000 | 1.2 | 50 |
| SBY100505T-750□-N | 75 | 0.4 | 200 | SBK160808T-222□-N | 2200 | 1.2 | 50 |
| SBY100505T-800□-N | 80 | 0.4 | 200 | SBK160808T-252□-N | 2500 | 1.3 | 50 |
| SBY100505T-121□-N | 120 | 0.5 | 200 | SBK160808T-272□-N | 2700 | 1.3 | 50 |
| SBY100505T-151□-N | 150 | 0.5 | 200 | SBY201209T-070□-N | 7 | 0.1 | 600 |
| SBY100505T-221□-N | 220 | 0.5 | 200 | SBY201209T-090□-N | 9 | 0.1 | 600 |
| SBY100505T-241□-N | 240 | 0.5 | 200 | SBY201209T-100□-N | 10 | 0.1 | 600 |
| SBY100505T-301□-N | 300 | 0.8 | 200 | SBY201209T-110□-N | 11 | 0.1 | 600 |
| SBY100505T-481□-N | 480 | 0.8 | 200 | SBY201209T-170□-N | 17 | 0.1 | 600 |
| SBY100505T-601□-N | 600 | 1 | 200 | SBY201209T-190□-N | 19 | 0.1 | 600 |
| SBY100505T-102□-N | 1000 | 1.5 | 100 | SBY201209T-220□-N | 22 | 0.1 | 600 |
| SBY100505T-152□-N | 1500 | 2 | 60 | SBY201209T-260□-N | 26 | 0.1 | 600 |
| SBK160808T-050□-N | 5 | 0.05 | 500 | SBY201209T-280□-N | 28 | 0.1 | 600 |
| SBK160808T-060□-N | 6 | 0.05 | 500 | SBY201209T-300□-N | 30 | 0.1 | 600 |
| SBK160808T-070□-N | 7 | 0.05 | 500 | SBY201209T-310□-N | 31 | 0.1 | 600 |
| SBK160808T-100□-N | 10 | 0.05 | 500 | SBY201209T-320□-N | 32 | 0.1 | 600 |
| SBK160808T-110□-N | 11 | 0.05 | 500 | SBY201209T-390□-N | 39 | 0.1 | 500 |
| SBK160808T-150□-N | 15 | 0.08 | 500 | SBY201209T-400□-N | 40 | 0.1 | 500 |
| SBK160808T-170□-N | 17 | 0.08 | 500 | SBY201209T-470□-N | 47 | 0.1 | 500 |
| SBK160808T-190□-N | 19 | 0.08 | 500 | SBY201209T-500□-N | 50 | 0.1 | 500 |
| SBK160808T-220□-N | 22 | 0.1 | 400 | SBY201209T-560□-N | 56 | 0.15 | 500 |
| SBK160808T-250□-N | 25 | 0.1 | 400 | SBK201209T-600□-N | 60 | 0.15 | 500 |
| SBK160808T-260□-N | 26 | 0.1 | 400 | SBK201209T-700□-N | 70 | 0.15 | 500 |
| SBK160808T-300□-N | 30 | 0.1 | 400 | SBK201209T-750□-N | 75 | 0.15 | 500 |
| SBK160808T-310□-N | 31 | 0.1 | 400 | SBK201209T-800□-N | 80 | 0.15 | 500 |
| SBK160808T-400□-N | 40 | 0.1 | 400 | SBK201209T-900□-N | 90 | 0.15 | 500 |
| SBK160808T-470□-N | 47 | 0.1 | 300 | SBK201209T-101□-N | 100 | 0.25 | 300 |
| SBK160808T-500□-N | 50 | 0.1 | 300 | SBK201209T-121□-N | 120 | 0.25 | 300 |
| SBK160808T-600□-N | 60 | 0.1 | 300 | SBK201209T-151□-N | 150 | 0.25 | 300 |
| SBK160808T-680□-N | 68 | 0.15 | 300 | SBK201209T-201□-N | 200 | 0.3 | 300 |
| SBK160808T-700□-N | 70 | 0.15 | 300 | SBK201209T-221□-N | 220 | 0.3 | 300 |
| SBK160808T-750□-N | 75 | 0.15 | 300 | SBK201209T-241□-N | 240 | 0.3 | 300 |
| SBK160808T-800□-N | 80 | 0.15 | 300 | SBK201209T-301□-N | 300 | 0.3 | 300 |
| SBK160808T-900□-N | 90 | 0.2 | 300 | SBK201209T-331□-N | 330 | 0.3 | 300 |
| SBK160808T-101□-N | 100 | 0.2 | 300 | SBK201209T-401□-N | 400 | 0.3 | 300 |
| SBK160808T-121□-N | 120 | 0.25 | 400 | SBK201209T-431□-N | 430 | 0.4 | 300 |
| SBK160808T-151□-N | 150 | 0.3 | 200 | SBK201209T-451□-N | 450 | 0.4 | 300 |
| SBK160808T-181□-N | 180 | 0.3 | 200 | SBK201209T-471□-N | 470 | 0.4 | 300 |
| SBK160808T-201□-N | 200 | 0.3 | 200 | SBK201209T-501□-N | 500 | 0.4 | 300 |
| SBK160808T-121□-N | 220 | 0.3 | 200 | SBK201209T-601□-N | 600 | 0.4 | 300 |
| SBK160808T-241□-N | 240 | 0.4 | 200 | SBK201209T-751□-N | 750 | 0.5 | 200 |
| SBK160808T-301□-N | 300 | 0.4 | 200 | SBK201209T-102□-N | 1000 | 0.5 | 200 |
| SBK160808T-331□-N | 330 | 0.5 | 200 | SBK201209T-122□-N | 1200 | 0.6 | 200 |
| SBK160808T-451□-N | 450 | 0.5 | 200 | SBK201209T-152□-N | 1500 | 0.6 | 200 |
| SBK160808T-471□-N | 470 | 0.5 | 200 | SBK201209T-202□-N | 2000 | 0.8 | 100 |



LEAD-FREE & ROHS COMPLIANCE

| PART NO. | IMPEDANCE | RDC | RATED CURRENT | PART NO. | IMPEDANCE | RDC | RATED CURRENT |
|-------------------|-----------------------|-------------------|---------------|-------------------|-----------------------|-------------------|---------------|
| | ($\Omega \pm 25\%$) | (Ω) Max. | (mA) Max. | | ($\Omega \pm 25\%$) | (Ω) Max. | (mA) Max. |
| SBK201209T-222□-N | 2200 | 1 | 100 | SBK321611T-401□-N | 400 | 0.2 | 400 |
| SBK201209T-252□-N | 2500 | 1 | 100 | SBK321611T-471□-N | 470 | 0.2 | 400 |
| SBK201209T-272□-N | 2700 | 1.5 | 100 | SBK321611T-501□-N | 500 | 0.2 | 400 |
| SBY321611T-080□-N | 8 | 0.05 | 600 | SBK321611T-601□-N | 600 | 0.3 | 400 |
| SBY321611T-090□-N | 9 | 0.05 | 600 | SBK321611T-102□-N | 1000 | 0.4 | 200 |
| SBY321611T-110□-N | 11 | 0.05 | 600 | SBK321611T-122□-N | 1200 | 0.4 | 200 |
| SBY321611T-190□-N | 19 | 0.05 | 600 | SBK321611T-152□-N | 1500 | 0.45 | 200 |
| SBY321611T-260□-N | 26 | 0.05 | 600 | SBK321611T-202□-N | 2000 | 0.6 | 200 |
| SBY321611T-300□-N | 30 | 0.05 | 600 | SBY321616T-250□-N | 25 | 0.1 | 500 |
| SBY321611T-310□-N | 31 | 0.05 | 600 | SBY321616T-600□-N | 60 | 0.2 | 500 |
| SBY321611T-320□-N | 32 | 0.05 | 600 | SBK321616T-700□-N | 70 | 0.2 | 500 |
| SBY321611T-470□-N | 47 | 0.1 | 500 | SBY322513T-320□-N | 32 | 0.2 | 500 |
| SBY321611T-500□-N | 50 | 0.1 | 500 | SBY322513T-600□-N | 60 | 0.2 | 500 |
| SBY321611T-600□-N | 60 | 0.1 | 500 | SBY322513T-900□-N | 90 | 0.2 | 500 |
| SBK321611T-700□-N | 70 | 0.1 | 500 | SBY451616T-500□-N | 50 | 0.2 | 600 |
| SBK321611T-750□-N | 75 | 0.15 | 500 | SBY451616T-600□-N | 60 | 0.2 | 600 |
| SBK321611T-800□-N | 80 | 0.15 | 500 | SBY451616T-800□-N | 80 | 0.2 | 600 |
| SBK321611T-900□-N | 90 | 0.15 | 500 | SBY451616T-900□-N | 90 | 0.3 | 500 |
| SBK321611T-101□-N | 100 | 0.15 | 500 | SBY451616T-101□-N | 100 | 0.3 | 500 |
| SBK321611T-121□-N | 120 | 0.15 | 500 | SBK451616T-151□-N | 150 | 0.3 | 500 |
| SBK321611T-151□-N | 150 | 0.15 | 500 | SBK451616T-171□-N | 170 | 0.3 | 500 |
| SBK321611T-201□-N | 200 | 0.2 | 400 | SBY453215T-700□-N | 70 | 0.3 | 500 |
| SBK321611T-221□-N | 220 | 0.2 | 400 | SBY453215T-121□-N | 120 | 0.3 | 500 |
| SBK321611T-301□-N | 300 | 0.2 | 400 | | | | |



PB SERIES, FOR HIGH CURRENT USE

APPLICATIONS

High current DC power lines for USB interface circuitry, personal computers, electronic games, hard disk drives, and other general electronic equipment.

FEATURES

Suitable for High Current Applications
 Small Package Size-EIA STD 0402/0603/0805/1206/1806 and 1812
 Nickel Barrier Terminations Provide Excellent Solder Heat Resistance
 Current Rating up to 6 AMPS (Max) (High Current Handling Capacity)
 Low DCR
 Suitable for Flow and Reflow Soldering
 Available in 6 Sizes

ELECTRICAL CHARACTERISTICS

| PART NO. | IMPEDANCE at 100MHz ($\Omega \pm 25\%$) | DC RESISTANCE (Ω) Max. | RATED CURRENT (mA) Max. |
|-------------------|--|------------------------------------|----------------------------|
| PBY100505T-100Y-S | 10 | 0.03 | 1000 |
| PBY160808T-110Y-S | 11 | 0.02 | 4000 |
| PBY160808T-250Y-S | 25 | 0.03 | 3000 |
| PBY160808T-400Y-S | 40 | 0.035 | 3000 |
| PBY160808T-600Y-S | 60 | 0.04 | 3000 |
| PBY160808T-121Y-S | 120 | 0.08 | 2500 |
| PBY160808T-151Y-S | 150 | 0.085 | 2000 |
| PBY160808T-181Y-S | 180 | 0.09 | 2000 |
| PBY160808T-201Y-S | 200 | 0.095 | 2000 |
| PBY160808T-301Y-S | 300 | 0.10 | 2000 |
| PBY160808T-501Y-S | 500 | 0.15 | 1500 |
| PBY160808T-601Y-S | 600 | 0.20 | 1000 |
| PBY160808T-102Y-S | 1000 | 0.25 | 800 |
| PBY201209T-110Y-S | 11 | 0.01 | 6000 |
| PBY201209T-170Y-S | 17 | 0.02 | 5000 |
| PBY201209T-300Y-S | 30 | 0.015 | 5000 |
| PBY201209T-500Y-S | 50 | 0.025 | 3000 |
| PBY201209T-600Y-S | 60 | 0.03 | 3000 |
| PBY201209T-800Y-S | 80 | 0.04 | 3000 |
| PBY201209T-121Y-S | 120 | 0.04 | 3000 |
| PBY201209T-201Y-S | 200 | 0.05 | 2500 |
| PBY201209T-301Y-S | 300 | 0.08 | 2000 |
| PBY201209T-601Y-S | 600 | 0.10 | 2000 |
| PBY201209T-102Y-S | 1000 | 0.12 | 1500 |
| PBY321611T-190Y-S | 19 | 0.015 | 6000 |
| PBY321611T-320Y-S | 32 | 0.015 | 4000 |
| PBY321611T-500Y-S | 50 | 0.02 | 4000 |
| PBY321611T-800Y-S | 80 | 0.025 | 3000 |
| PBY321611T-101Y-S | 100 | 0.03 | 2500 |
| PBY321611T-121Y-S | 120 | 0.03 | 2500 |
| PBY321611T-221Y-S | 220 | 0.05 | 2000 |
| PBY321611T-301Y-S | 300 | 0.06 | 2000 |
| PBY321611T-601Y-S | 600 | 0.10 | 1800 |
| PBY321611T-102Y-S | 1000 * | 0.15 | 1200 |
| PBY321611T-122Y-S | 1200 * | 0.18 | 1000 |
| PBY321611T-152Y-S | 1500 * | 0.20 | 800 |
| PBY322513T-600Y-S | 60 | 0.025 | 4000 |
| PBY322513T-900Y-S | 90 | 0.025 | 3000 |
| PBY451616T-500Y-S | 50 | 0.020 | 6000 |
| PBY451616T-600Y-S | 60 | 0.020 | 5000 |
| PBY451616T-800Y-S | 80 | 0.025 | 4000 |
| PBY451616T-900Y-S | 90 | 0.04 | 4000 |
| PBY451616T-151Y-S | 150 | 0.100 | 2000 |
| PBY453215T-700Y-S | 70 | 0.03 | 6000 |
| PBY453215T-121Y-S | 120 | 0.03 | 4000 |
| PBY453215T-151Y-S | 150 | 0.03 | 4000 |
| PBY453215T-601Y-S | 600 | 0.1 | 2000 |

Note : * at 50MHz



LEAD-FREE & ROHS COMPLIANCE

| PART NO. | IMPEDANCE | RDC | RATED | PART NO. | IMPEDANCE | RDC | RATED |
|-------------------|-----------------------|-------------------|----------------------|-------------------|-----------------------|-------------------|----------------------|
| | ($\Omega \pm 25\%$) | (Ω) Max. | CURRENT (mA) Max. | | ($\Omega \pm 25\%$) | (Ω) Max. | CURRENT (mA) Max. |
| PBY100505T-100□-N | 10 | 0.03 | 1000 | PBY201209T-151□-N | 150 | 0.05 | 2500 |
| PBY160808T-100□-N | 10 | 0.02 | 4000 | PBY201209T-181□-N | 180 | 0.05 | 2500 |
| PBY160808T-110□-N | 11 | 0.02 | 4000 | PBY201209T-201□-N | 200 | 0.05 | 2500 |
| PBY160808T-190□-N | 19 | 0.03 | 3000 | PBY201209T-221□-N | 220 | 0.08 | 2000 |
| PBY160808T-200□-N | 20 | 0.03 | 3000 | PBY201209T-301□-N | 300 | 0.08 | 2000 |
| PBY160808T-220□-N | 22 | 0.03 | 3000 | PBY201209T-331□-N | 330 | 0.08 | 2000 |
| PBY160808T-250□-N | 25 | 0.03 | 3000 | PBY201209T-401□-N | 400 | 0.1 | 2000 |
| PBY160808T-300□-N | 30 | 0.03 | 3000 | PBY201209T-471□-N | 470 | 0.1 | 2000 |
| PBY160808T-310□-N | 31 | 0.035 | 3000 | PBY201209T-501□-N | 500 | 0.1 | 2000 |
| PBY160808T-400□-N | 40 | 0.035 | 3000 | PBY201209T-601□-N | 600 | 0.1 | 2000 |
| PBY160808T-470□-N | 47 | 0.04 | 3000 | PBY201209T-102□-N | 1000 | 0.12 | 1500 |
| PBY160808T-500□-N | 50 | 0.04 | 3000 | PBY321611T-080□-N | 8 | 0.015 | 6000 |
| PBY160808T-560□-N | 56 | 0.04 | 3000 | PBY321611T-110□-N | 11 | 0.015 | 6000 |
| PBY160808T-600□-N | 60 | 0.04 | 3000 | PBY321611T-190□-N | 19 | 0.015 | 6000 |
| PBY160808T-680□-N | 68 | 0.05 | 2500 | PBY321611T-260□-N | 26 | 0.015 | 6000 |
| PBY160808T-700□-N | 70 | 0.05 | 2500 | PBY321611T-300□-N | 30 | 0.015 | 4000 |
| PBY160808T-750□-N | 75 | 0.05 | 2500 | PBY321611T-310□-N | 31 | 0.015 | 4000 |
| PBY160808T-800□-N | 80 | 0.05 | 2500 | PBY321611T-320□-N | 32 | 0.015 | 4000 |
| PBY160808T-900□-N | 90 | 0.05 | 2500 | PBY321611T-420□-N | 42 | 0.015 | 4000 |
| PBY160808T-101□-N | 100 | 0.05 | 2500 | PBY321611T-500□-N | 50 | 0.02 | 4000 |
| PBY160808T-121□-N | 120 | 0.08 | 2500 | PBY321611T-600□-N | 60 | 0.02 | 4000 |
| PBY160808T-151□-N | 150 | 0.085 | 2000 | PBY321611T-680□-N | 68 | 0.02 | 4000 |
| PBY160808T-181□-N | 180 | 0.09 | 2000 | PBY321611T-700□-N | 70 | 0.02 | 4000 |
| PBY160808T-201□-N | 200 | 0.095 | 2000 | PBY321611T-800□-N | 80 | 0.025 | 3000 |
| PBY160808T-221□-N | 220 | 0.1 | 2000 | PBY321611T-900□-N | 90 | 0.03 | 3000 |
| PBY160808T-301□-N | 300 | 0.12 | 1500 | PBY321611T-101□-N | 100 | 0.03 | 2000 |
| PBY160808T-331□-N | 330 | 0.12 | 1500 | PBY321611T-121□-N | 120 | 0.03 | 2000 |
| PBY160808T-401□-N | 400 | 0.12 | 1500 | PBY321611T-151□-N | 150 | 0.04 | 2000 |
| PBY160808T-471□-N | 470 | 0.12 | 1500 | PBY321611T-201□-N | 200 | 0.05 | 2000 |
| PBY160808T-501□-N | 500 | 0.15 | 1200 | PBY321611T-221□-N | 220 | 0.05 | 2000 |
| PBY160808T-601□-N | 600 | 0.2 | 1000 | PBY321611T-301□-N | 300 | 0.06 | 2000 |
| PBY160808T-102□-N | 1000 | 0.25 | 800 | PBY321611T-401□-N | 400 | 0.1 | 2000 |
| PBY201209T-070□-N | 7 | 0.01 | 6000 | PBY321611T-501□-N | 500 | 0.1 | 2000 |
| PBY201209T-110□-N | 11 | 0.01 | 6000 | PBY321611T-601□-N | 600 | 0.1 | 2000 |
| PBY201209T-170□-N | 17 | 0.02 | 5000 | PBY321611T-102□-N | 1000 | 0.15 | 1200 |
| PBY201209T-190□-N | 19 | 0.02 | 4000 | PBY321611T-122□-N | 1200 | 0.18 | 1000 |
| PBY201209T-220□-N | 22 | 0.02 | 4000 | PBY321611T-152□-N | 1500 | 0.2 | 800 |
| PBY201209T-280□-N | 28 | 0.02 | 4000 | PBY322513T-600□-N | 60 | 0.025 | 4000 |
| PBY201209T-300□-N | 30 | 0.02 | 4000 | PBY322513T-900□-N | 90 | 0.025 | 3000 |
| PBY201209T-310□-N | 31 | 0.02 | 4000 | PBY451616T-190□-N | 19 | 0.02 | 6000 |
| PBY201209T-390□-N | 39 | 0.02 | 3000 | PBY451616T-400□-N | 40 | 0.02 | 6000 |
| PBY201209T-400□-N | 40 | 0.02 | 3000 | PBY451616T-500□-N | 50 | 0.02 | 6000 |
| PBY201209T-420□-N | 42 | 0.025 | 3000 | PBY451616T-600□-N | 60 | 0.02 | 5000 |
| PBY201209T-500□-N | 50 | 0.025 | 3000 | PBY451616T-700□-N | 70 | 0.025 | 5000 |
| PBY201209T-600□-N | 60 | 0.03 | 3000 | PBY451616T-750□-N | 75 | 0.025 | 5000 |
| PBY201209T-700□-N | 70 | 0.04 | 3000 | PBY451616T-800□-N | 80 | 0.025 | 4000 |
| PBY201209T-750□-N | 75 | 0.04 | 3000 | PBY451616T-101□-N | 100 | 0.1 | 2000 |
| PBY201209T-800□-N | 80 | 0.04 | 3000 | PBY451616T-151□-N | 150 | 0.1 | 2000 |
| PBY201209T-900□-N | 90 | 0.04 | 3000 | PBY451616T-191□-N | 190 | 0.1 | 2000 |
| PBY201209T-101□-N | 100 | 0.04 | 3000 | PBY451616T-601□-N | 600 | 0.1 | 2000 |
| PBY201209T-121□-N | 120 | 0.04 | 3000 | PBY451616T-102□-N | 1000 | 0.1 | 2000 |



LEAD-FREE & ROHS COMPLIANCE

| PART NO. | IMPEDANCE | RDC | RATED CURRENT |
|-------------------|-----------------------|-------------------|---------------|
| | ($\Omega \pm 25\%$) | (Ω) Max. | (mA) Max. |
| PBY451616T-132□-N | 1300 | 0.1 | 2000 |
| PBY453215T-700□-N | 70 | 0.03 | 6000 |
| PBY453215T-800□-N | 80 | 0.03 | 4000 |
| PBY453215T-900□-N | 90 | 0.03 | 4000 |
| PBY453215T-121□-N | 120 | 0.03 | 4000 |
| PBY453215T-125□-N | 125 | 0.03 | 4000 |
| PBY453215T-151□-N | 150 | 0.03 | 4000 |



UPB SERIES, FOR ULTRA HIGH CURRENT USE

APPLICATIONS

Preventing of Electronics Magnet Interference in Power Line of PC, Printer, & CD ROM
High Frequency Filtering of Medium Speed Clocks and Video Signals

FEATURES

High Current Performance
Low D.C. Resistance Minute $m\Omega$ Typically
Impedance Character of Broad Frequency

ELECTRICAL CHARACTERISTICS

| PART NO. | IMPEDANCE | DC RESISTANCE | RATED CURRENT |
|-------------------|---------------------------------|-------------------|---------------|
| | at 100MHz ($\Omega \pm 25\%$) | (Ω) Max. | (mA) Max. |
| UPB160808T-110Y-S | 11 | 0.015 | 4500 |
| UPB160808T-170Y-S | 17 | 0.015 | 4500 |
| UPB160808T-250Y-S | 25 | 0.015 | 4500 |
| UPB160808T-300Y-S | 30 | 0.015 | 4500 |
| UPB201209T-110Y-S | 11 | 0.015 | 5000 |
| UPB201209T-150Y-S | 15 | 0.015 | 5000 |
| UPB201209T-190Y-S | 19 | 0.015 | 5000 |
| UPB201209T-260Y-S | 26 | 0.015 | 5000 |
| UPB201209T-300Y-S | 30 | 0.015 | 5000 |
| UPB201209T-330Y-S | 33 | 0.015 | 5000 |
| UPB201209T-400Y-S | 40 | 0.015 | 5000 |
| UPB201209T-500Y-S | 50 | 0.015 | 5000 |
| UPB201209T-600Y-S | 60 | 0.020 | 4500 |
| UPB201212T-600Y-S | 60 | 0.02 | 5000 |
| UPB201212T-700Y-S | 70 | 0.02 | 5000 |
| UPB201212T-800Y-S | 80 | 0.02 | 5000 |
| UPB201212T-101Y-S | 100 | 0.025 | 5000 |
| UPB201212T-121Y-S | 120 | 0.025 | 5000 |
| UPB321611T-110Y-S | 11 | 0.012 | 6000 |
| UPB321611T-190Y-S | 19 | 0.012 | 6000 |
| UPB321611T-260Y-S | 26 | 0.012 | 6000 |
| UPB321611T-300Y-S | 30 | 0.012 | 6000 |
| UPB321611T-400Y-S | 40 | 0.012 | 6000 |
| UPB321611T-500Y-S | 50 | 0.012 | 6000 |
| UPB321611T-600Y-S | 60 | 0.012 | 6000 |
| UPB321611T-800Y-S | 80 | 0.012 | 6000 |
| UPB321611T-101Y-S | 100 | 0.012 | 6000 |
| UPB321611T-121Y-S | 120 | 0.012 | 6000 |
| UPB321611T-151Y-S | 150 | 0.020 | 4500 |
| UPB321616T-600Y-S | 60 | 0.012 | 6000 |
| UPB323215T-700Y-S | 70 | 0.01 | 9000 |



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

| PART NO. | IMPEDANCE | DC RESISTANCE | RATED CURRENT |
|--------------------|---------------------------------|-------------------|---------------|
| | at 100MHz ($\Omega \pm 25\%$) | (Ω) Max. | (mA) Max. |
| UPB160808T-110 □-N | 11 | 0.015 | 4500 |
| UPB160808T-170 □-N | 17 | 0.015 | 4500 |
| UPB160808T-250 □-N | 25 | 0.015 | 4500 |
| UPB160808T-300 □-N | 30 | 0.015 | 4500 |
| UPB201209T-110 □-N | 11 | 0.012 | 5000 |
| UPB201209T-150 □-N | 15 | 0.012 | 5000 |
| UPB201209T-190 □-N | 19 | 0.012 | 5000 |
| UPB201209T-260 □-N | 26 | 0.012 | 5000 |
| UPB201209T-300 □-N | 30 | 0.012 | 5000 |
| UPB201209T-330 □-N | 33 | 0.012 | 5000 |
| UPB201209T-400 □-N | 40 | 0.015 | 5000 |
| UPB201209T-500 □-N | 50 | 0.015 | 5000 |
| UPB201209T-600 □-N | 60 | 0.02 | 4500 |
| UPB201209T-700 □-N | 70 | 0.02 | 4500 |
| UPB201209T-800 □-N | 80 | 0.02 | 4500 |
| UPB201212T-600 □-N | 60 | 0.02 | 5000 |
| UPB201212T-700 □-N | 70 | 0.02 | 5000 |
| UPB201212T-800 □-N | 80 | 0.02 | 5000 |
| UPB201212T-101 □-N | 100 | 0.025 | 5000 |
| UPB201212T-121 □-N | 120 | 0.025 | 5000 |
| UPB321611T-110 □-N | 11 | 0.012 | 6000 |
| UPB321611T-190 □-N | 19 | 0.012 | 6000 |
| UPB321611T-260 □-N | 26 | 0.012 | 6000 |
| UPB321611T-300 □-N | 30 | 0.012 | 6000 |
| UPB321611T-320 □-N | 32 | 0.012 | 6000 |
| UPB321611T-400 □-N | 40 | 0.012 | 6000 |
| UPB321611T-500 □-N | 50 | 0.012 | 6000 |
| UPB321611T-600 □-N | 60 | 0.012 | 6000 |
| UPB321611T-800 □-N | 80 | 0.012 | 6000 |
| UPB321611T-101 □-N | 100 | 0.012 | 6000 |
| UPB321611T-121 □-N | 120 | 0.012 | 6000 |
| UPB321611T-151 □-N | 150 | 0.02 | 4500 |
| UPB451616T-600 □-N | 60 | 0.012 | 7000 |
| UPB453215T-700 □-N | 70 | 0.01 | 9000 |
| UPB453215T-900 □-N | 90 | 0.01 | 9000 |

NOTE : □ -tolerance Y= $\pm 25\%$ / T= $\pm 30\%$

1. Operating temperature range -55°C~125°C

2. Rate current: Applied the current to coils, the temperature rise shall not be more than 30°C

"-N" FOR COMPLETELY LEAD FREE TYPE (INCLUDING FERRITE BODY & SOLDER)



NB SERIES, FOR HIGH SPEED SIGNALS USE

APPLICATIONS

High-Speed Circuits for Computer & Peripheral Equipments and Communication Devices

Cellular Phone

Suitable for Circuits with Unstable Ground

FEATURES

Exhibiting High Impedance with Sharp Increase at High-Speed Signal Frequencies with Minimal Diminishing the Desired Wave Form

Suitable for Flow and Reflow Soldering

Available in 4 Sizes

ELECTRICAL CHARACTERISTICS

| PART NO. | IMPEDANCE | DC RESISTANCE | RATED CURRENT |
|-------------------|---------------------------------|-------------------|---------------|
| | at 100MHz ($\Omega \pm 25\%$) | (Ω) Max. | (mA) Max. |
| NBQ100505T-060Y-S | 6 | 0.10 | 300 |
| NBQ100505T-100Y-S | 10 | 0.20 | 200 |
| NBQ100505T-400Y-S | 40 | 0.40 | 150 |
| NBQ100505T-800Y-S | 80 | 0.60 | 100 |
| NBQ100505T-121Y-S | 120 | 0.80 | 50 |
| NBQ160808T-060Y-S | 6 | 0.05 | 500 |
| NBQ160808T-100Y-S | 10 | 0.07 | 400 |
| NBQ160808T-400Y-S | 40 | 0.30 | 300 |
| NBQ160808T-600Y-S | 60 | 0.30 | 300 |
| NBQ160808T-800Y-S | 80 | 0.40 | 300 |
| NBQ160808T-121Y-S | 120 | 0.40 | 300 |
| NBQ160808T-241Y-S | 240 | 0.40 | 200 |
| NBQ160808T-301Y-S | 300 | 0.50 | 200 |
| NBQ160808T-481Y-S | 480 | 0.60 | 150 |
| NBQ160808T-601Y-S | 600 | 0.60 | 100 |
| NBQ160808T-102Y-S | 1000 | 0.70 | 100 |
| NBQ160808T-122Y-S | 1200 | 0.70 | 100 |
| NBQ160808T-152Y-S | 1500 | 0.80 | 100 |
| NBQ160808T-182Y-S | 1800 | 0.95 | 100 |
| NBQ160808T-222Y-S | 2200 | 1.0 | 50 |
| NBQ160808T-252Y-S | 2500 | 1.0 | 50 |
| NBQ201209T-060Y-S | 6 | 0.07 | 800 |
| NBQ201209T-110Y-S | 11 | 0.10 | 700 |
| NBQ201209T-260Y-S | 26 | 0.15 | 600 |
| NBQ201209T-320Y-S | 32 | 0.15 | 600 |
| NBQ201209T-600Y-S | 60 | 0.15 | 500 |
| NBQ201209T-750Y-S | 75 | 0.15 | 500 |
| NBQ201209T-900Y-S | 90 | 0.15 | 500 |
| NBQ201209T-121Y-S | 120 | 0.20 | 400 |
| NBQ201209T-151Y-S | 150 | 0.20 | 400 |
| NBQ201209T-171Y-S | 170 | 0.30 | 400 |
| NBQ201209T-221Y-S | 220 | 0.30 | 300 |
| NBQ201209T-301Y-S | 300 | 0.30 | 300 |
| NBQ201209T-401Y-S | 400 | 0.35 | 300 |
| NBQ201209T-501Y-S | 500 | 0.35 | 200 |
| NBQ201209T-601Y-S | 600 | 0.35 | 200 |
| NBQ201209T-102Y-S | 1000 | 0.40 | 200 |
| NBQ201209T-122Y-S | 1200 | 0.45 | 200 |
| NBQ201209T-152Y-S | 1500 | 0.45 | 200 |
| NBQ201209T-222Y-S | 2200 | 0.50 | 200 |
| NBQ201209T-272Y-S | 2700 | 0.60 | 200 |
| NBQ321611T-320Y-S | 32 | 0.15 | 600 |
| NBQ321611T-600Y-S | 60 | 0.15 | 500 |
| NBQ321611T-800Y-S | 80 | 0.15 | 500 |
| NBQ321611T-900Y-S | 90 | 0.15 | 500 |
| NBQ321611T-121Y-S | 120 | 0.20 | 400 |
| NBQ321611T-151Y-S | 150 | 0.20 | 400 |
| NBQ321611T-201Y-S | 200 | 0.25 | 300 |
| NBQ321611T-221Y-S | 220 | 0.30 | 300 |
| NBQ321611T-351Y-S | 350 | 0.30 | 300 |
| NBQ321611T-401Y-S | 400 | 0.30 | 300 |
| NBQ321611T-601Y-S | 600 | 0.35 | 300 |
| NBQ321611T-122Y-S | 1200 | 0.40 | 200 |
| NBQ321611T-152Y-S | 1500 | 0.45 | 200 |



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

| PART NO. | IMPEDANCE | DC RESISTANCE | RATED CURRENT |
|---------------------|---------------------------------|-------------------|---------------|
| | at 100MHz ($\Omega \pm 25\%$) | (Ω) Max. | (mA) Max. |
| NBQ100505T-060 □ -N | 6 | 0.1 | 300 |
| NBQ100505T-100 □ -N | 10 | 0.2 | 200 |
| NBQ100505T-220 □ -N | 22 | 0.4 | 150 |
| NBQ100505T-400 □ -N | 40 | 0.4 | 150 |
| NBQ100505T-600 □ -N | 60 | 0.6 | 100 |
| NBQ100505T-800 □ -N | 80 | 0.6 | 100 |
| NBQ100505T-121 □ -N | 120 | 0.8 | 50 |
| NBQ100505T-221 □ -N | 220 | 1.4 | 50 |
| NBQ160808T-060 □ -N | 6 | 0.05 | 500 |
| NBQ160808T-100 □ -N | 10 | 0.07 | 400 |
| NBQ160808T-300 □ -N | 30 | 0.2 | 300 |
| NBQ160808T-400 □ -N | 40 | 0.2 | 300 |
| NBQ160808T-470 □ -N | 47 | 0.2 | 300 |
| NBQ160808T-500 □ -N | 50 | 0.25 | 300 |
| NBQ160808T-600 □ -N | 60 | 0.25 | 300 |
| NBQ160808T-680 □ -N | 68 | 0.25 | 300 |
| NBQ160808T-700 □ -N | 70 | 0.25 | 300 |
| NBQ160808T-750 □ -N | 75 | 0.25 | 300 |
| NBQ160808T-800 □ -N | 80 | 0.25 | 300 |
| NBQ160808T-101 □ -N | 100 | 0.3 | 300 |
| NBQ160808T-121 □ -N | 120 | 0.3 | 300 |
| NBQ160808T-131 □ -N | 130 | 0.3 | 300 |
| NBQ160808T-141 □ -N | 140 | 0.3 | 300 |
| NBQ160808T-151 □ -N | 150 | 0.3 | 200 |
| NBQ160808T-161 □ -N | 160 | 0.3 | 200 |
| NBQ160808T-221 □ -N | 220 | 0.35 | 200 |
| NBQ160808T-241 □ -N | 240 | 0.35 | 200 |
| NBQ160808T-301 □ -N | 300 | 0.4 | 200 |
| NBQ160808T-471 □ -N | 470 | 0.5 | 200 |
| NBQ160808T-481 □ -N | 480 | 0.5 | 200 |
| NBQ160808T-601 □ -N | 600 | 0.5 | 200 |
| NBQ160808T-102 □ -N | 1000 | 0.6 | 100 |
| NBQ160808T-122 □ -N | 1200 | 0.6 | 100 |
| NBQ160808T-152 □ -N | 1500 | 0.7 | 100 |
| NBQ160808T-182 □ -N | 1800 | 0.8 | 100 |
| NBQ160808T-222 □ -N | 2200 | 1 | 50 |
| NBQ160808T-252 □ -N | 2500 | 1.5 | 50 |
| NBQ201209T-050 □ -N | 5 | 0.07 | 800 |
| NBQ201209T-060 □ -N | 6 | 0.07 | 800 |
| NBQ201209T-070 □ -N | 7 | 0.1 | 700 |
| NBQ201209T-110 □ -N | 11 | 0.1 | 700 |
| NBQ201209T-260 □ -N | 26 | 0.15 | 600 |
| NBQ201209T-300 □ -N | 30 | 0.15 | 600 |
| NBQ201209T-320 □ -N | 32 | 0.15 | 600 |
| NBQ201209T-400 □ -N | 40 | 0.15 | 500 |
| NBQ201209T-600 □ -N | 60 | 0.15 | 500 |
| NBQ201209T-750 □ -N | 75 | 0.15 | 500 |
| NBQ201209T-900 □ -N | 90 | 0.15 | 500 |
| NBQ201209T-101 □ -N | 100 | 0.2 | 400 |
| NBQ201209T-121 □ -N | 120 | 0.2 | 400 |
| NBQ201209T-151 □ -N | 150 | 0.2 | 400 |
| NBQ201209T-171 □ -N | 170 | 0.3 | 400 |



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

| PART NO. | IMPEDANCE | DC RESISTANCE | RATED CURRENT |
|--------------------|---------------------------------|-------------------|---------------|
| | at 100MHz ($\Omega \pm 25\%$) | (Ω) Max. | (mA) Max. |
| NBQ201209T-201 □-N | 200 | 0.3 | 300 |
| NBQ201209T-221 □-N | 220 | 0.3 | 300 |
| NBQ201209T-301 □-N | 300 | 0.3 | 300 |
| NBQ201209T-401 □-N | 400 | 0.3 | 300 |
| NBQ201209T-421 □-N | 420 | 0.3 | 300 |
| NBQ201209T-501 □-N | 500 | 0.35 | 200 |
| NBQ201209T-601 □-N | 600 | 0.35 | 200 |
| NBQ201209T-751 □-N | 750 | 0.4 | 200 |
| NBQ201209T-102 □-N | 1000 | 0.4 | 200 |
| NBQ201209T-122 □-N | 1200 | 0.45 | 200 |
| NBQ201209T-152 □-N | 1500 | 0.45 | 200 |
| NBQ201209T-202 □-N | 2000 | 0.5 | 200 |
| NBQ201209T-222 □-N | 2200 | 0.5 | 200 |
| NBQ201209T-252 □-N | 2500 | 0.6 | 200 |
| NBQ201209T-272 □-N | 2700 | 0.6 | 200 |
| NBQ321611T-170 □-N | 17 | 0.15 | 600 |
| NBQ321611T-190 □-N | 19 | 0.15 | 600 |
| NBQ321611T-320 □-N | 32 | 0.15 | 600 |
| NBQ321611T-600 □-N | 60 | 0.15 | 500 |
| NBQ321611T-800 □-N | 80 | 0.15 | 500 |
| NBQ321611T-900 □-N | 90 | 0.15 | 500 |
| NBQ321611T-121 □-N | 120 | 0.2 | 400 |
| NBQ321611T-151 □-N | 150 | 0.2 | 400 |
| NBQ321611T-201 □-N | 200 | 0.25 | 300 |
| NBQ321611T-221 □-N | 220 | 0.3 | 300 |
| NBQ321611T-351 □-N | 350 | 0.3 | 300 |
| NBQ321611T-401 □-N | 400 | 0.3 | 300 |
| NBQ321611T-601 □-N | 600 | 0.35 | 300 |
| NBQ321611T-122 □-N | 1200 | 0.4 | 200 |
| NBQ321611T-152 □-N | 1500 | 0.45 | 200 |

NOTE : □ -tolerance Y=±25% / T=±30%

1. Operating temperature range -55°C~125°C

2. Rate current: Applied the current to coils, the temperature rise shall not be more than 30°C

"-N" FOR COMPLETELY LEAD FREE TYPE (INCLUDING FERRITE BODY & SOLDER)



GB SERIES, FOR MID CURRENT USE

APPLICATIONS

* Computers * Modems * CD-ROMs * Hard Drives
* Televisions * Wireless Device

FEATURES

This series exhibits a low DC resistance across a wide range of impedances.
Low DC resistance characteristics make the chip beads suitable for use on signal lines handling larger currents.

ELECTRICAL CHARACTERISTICS

| PART NO. | IMPEDANCE at 100MHz ($\Omega \pm 25\%$) | DC RESISTANCE (Ω) Max. | RATED CURRENT (mA) Max. | PART NO. | IMPEDANCE at 100MHz ($\Omega \pm 25\%$) | DC RESISTANCE (Ω) Max. | RATED CURRENT (mA) Max. |
|-------------------|---|---------------------------------------|-------------------------------|-------------------|---|---------------------------------------|-------------------------------|
| GBK160808T-110Y-S | 11 | 0.03 | 1000 | GBY321611T-190Y-S | 19 | 0.03 | 1000 |
| GBK160808T-190Y-S | 19 | 0.05 | 1000 | GBY321611T-260Y-S | 26 | 0.03 | 1000 |
| GBK160808T-300Y-S | 30 | 0.06 | 800 | GBY321611T-320Y-S | 32 | 0.03 | 1000 |
| GBK160808T-400Y-S | 40 | 0.06 | 800 | GBY321611T-500Y-S | 50 | 0.06 | 800 |
| GBK160808T-600Y-S | 60 | 0.06 | 600 | GBY321611T-600Y-S | 60 | 0.06 | 800 |
| GBK160808T-800Y-S | 80 | 0.10 | 600 | GBK321611T-700Y-S | 70 | 0.06 | 800 |
| GBK160808T-121Y-S | 120 | 0.15 | 600 | GBK321611T-900Y-S | 90 | 0.10 | 800 |
| GBK160808T-221Y-S | 220 | 0.18 | 400 | GBK321611T-121Y-S | 120 | 0.10 | 800 |
| GBK160808T-301Y-S | 300 | 0.25 | 400 | GBK321611T-151Y-S | 150 | 0.10 | 800 |
| GBK160808T-451Y-S | 450 | 0.30 | 400 | GBK321611T-201Y-S | 200 | 0.15 | 600 |
| GBK160808T-601Y-S | 600 | 0.30 | 400 | GBK321611T-401Y-S | 400 | 0.15 | 600 |
| GBK160808T-751Y-S | 750 | 0.45 | 300 | GBK321611T-501Y-S | 500 | 0.15 | 600 |
| GBK160808T-102Y-S | 1000 | 0.45 | 300 | GBK321611T-601Y-S | 600 | 0.20 | 500 |
| GBY201209T-070Y-S | 7 | 0.06 | 1000 | GBK321611T-102Y-S | 1000 * | 0.25 | 400 |
| GBY201209T-090Y-S | 9 | 0.06 | 1000 | GBK321611T-122Y-S | 1200 * | 0.25 | 400 |
| GBY201209T-110Y-S | 11 | 0.06 | 1000 | GBK321611T-202Y-S | 2000 ** | 0.35 | 400 |
| GBY201209T-170Y-S | 17 | 0.06 | 1000 | GBY321616T-250Y-S | 25 | 0.10 | 1000 |
| GBY201209T-320Y-S | 32 | 0.06 | 1000 | GBY321616T-600Y-S | 60 | 0.10 | 1000 |
| GBK201209T-600Y-S | 60 | 0.10 | 800 | GBK321616T-700Y-S | 70 | 0.10 | 1000 |
| GBK201209T-700Y-S | 70 | 0.10 | 800 | GBY322513T-320Y-S | 32 | 0.10 | 1000 |
| GBK201209T-800Y-S | 80 | 0.10 | 800 | GBY322513T-600Y-S | 60 | 0.10 | 1000 |
| GBK201209T-121Y-S | 120 | 0.15 | 600 | GBY322513T-900Y-S | 90 | 0.10 | 1000 |
| GBK201209T-151Y-S | 150 | 0.15 | 600 | GBY451616T-500Y-S | 50 | 0.10 | 1000 |
| GBK201209T-221Y-S | 220 | 0.18 | 600 | GBY451616T-600Y-S | 60 | 0.10 | 1000 |
| GBK201209T-301Y-S | 300 | 0.18 | 600 | GBY451616T-800Y-S | 80 | 0.10 | 1000 |
| GBK201209T-401Y-S | 400 | 0.18 | 600 | GBY451616T-101Y-S | 100 | 0.18 | 800 |
| GBK201209T-501Y-S | 500 | 0.25 | 500 | GBK451616T-151Y-S | 150 | 0.18 | 800 |
| GBK201209T-601Y-S | 600 | 0.25 | 500 | GBK451616T-171Y-S | 170 | 0.18 | 800 |
| GBK201209T-751Y-S | 750 | 0.30 | 400 | GBY453215T-700Y-S | 70 | 0.18 | 800 |
| GBK201209T-102Y-S | 1000 | 0.30 | 400 | GBY453215T-121Y-S | 120 | 0.18 | 800 |
| GBK201209T-152Y-S | 1500 | 0.40 | 400 | | | | |
| GBK201209T-202Y-S | 2000 | 0.55 | 400 | | | | |

Note : * at 50MHz ** at 30MHz



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

| PART NO. | IMPEDANCE at 100MHz ($\Omega \pm 25\%$) | DC RESISTANCE (Ω) Max. | RATED CURRENT (mA) Max. |
|---------------------|--|------------------------------------|----------------------------|
| GBK160808T-110 □ -N | 11 | 0.03 | 1000 |
| GBK160808T-190 □ -N | 19 | 0.05 | 1000 |
| GBK160808T-300 □ -N | 30 | 0.06 | 800 |
| GBK160808T-320 □ -N | 32 | 0.06 | 800 |
| GBK160808T-400 □ -N | 40 | 0.06 | 800 |
| GBK160808T-500 □ -N | 50 | 0.06 | 600 |
| GBK160808T-600 □ -N | 60 | 0.06 | 600 |
| GBK160808T-800 □ -N | 80 | 0.1 | 600 |
| GBK160808T-101 □ -N | 100 | 0.15 | 600 |
| GBK160808T-121 □ -N | 120 | 0.15 | 600 |
| GBK160808T-181 □ -N | 180 | 0.18 | 400 |
| GBK160808T-221 □ -N | 220 | 0.18 | 400 |
| GBK160808T-301 □ -N | 300 | 0.25 | 400 |
| GBK160808T-451 □ -N | 450 | 0.3 | 400 |
| GBK160808T-471 □ -N | 470 | 0.3 | 400 |
| GBK160808T-601 □ -N | 600 | 0.3 | 400 |
| GBK160808T-751 □ -N | 750 | 0.45 | 300 |
| GBK160808T-102 □ -N | 1000 | 0.45 | 300 |
| GBK160808T-152 □ -N | 1500 | 0.7 | 150 |
| GBY201209T-070 □ -N | 7 | 0.06 | 1000 |
| GBY201209T-090 □ -N | 9 | 0.06 | 1000 |
| GBY201209T-110 □ -N | 11 | 0.06 | 1000 |
| GBY201209T-170 □ -N | 17 | 0.06 | 1000 |
| GBY201209T-300 □ -N | 30 | 0.06 | 1000 |
| GBY201209T-320 □ -N | 32 | 0.06 | 1000 |
| GBY201209T-330 □ -N | 33 | 0.1 | 800 |
| GBY201209T-400 □ -N | 40 | 0.1 | 800 |
| GBK201209T-600 □ -N | 60 | 0.1 | 800 |
| GBK201209T-700 □ -N | 70 | 0.1 | 800 |
| GBK201209T-800 □ -N | 80 | 0.1 | 800 |
| GBK201209T-101 □ -N | 100 | 0.15 | 600 |
| GBK201209T-121 □ -N | 120 | 0.15 | 600 |
| GBK201209T-151 □ -N | 150 | 0.15 | 600 |
| GBK201209T-221 □ -N | 220 | 0.18 | 600 |
| GBK201209T-301 □ -N | 300 | 0.18 | 600 |



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

| PART NO. | IMPEDANCE at 100MHz ($\Omega \pm 25\%$) | DC RESISTANCE (Ω) Max. | RATED CURRENT (mA) Max. |
|---------------------|--|------------------------------------|----------------------------|
| GBK201209T-401 □ -N | 400 | 0.18 | 600 |
| GBK201209T-501 □ -N | 500 | 0.25 | 500 |
| GBK201209T-601 □ -N | 600 | 0.25 | 500 |
| GBK201209T-751 □ -N | 750 | 0.3 | 400 |
| GBK201209T-102 □ -N | 1000 | 0.3 | 400 |
| GBK201209T-152 □ -N | 1500 | 0.4 | 400 |
| GBK201209T-202 □ -N | 2000 | 0.55 | 400 |
| GBY321611T-190 □ -N | 19 | 0.03 | 1000 |
| GBY321611T-260 □ -N | 26 | 0.03 | 1000 |
| GBY321611T-320 □ -N | 32 | 0.03 | 1000 |
| GBY321611T-500 □ -N | 50 | 0.06 | 800 |
| GBY321611T-600 □ -N | 60 | 0.06 | 800 |
| GBK321611T-700 □ -N | 70 | 0.06 | 800 |
| GBK321611T-900 □ -N | 90 | 0.1 | 800 |
| GBK321611T-121 □ -N | 120 | 0.1 | 800 |
| GBK321611T-151 □ -N | 150 | 0.1 | 800 |
| GBK321611T-201 □ -N | 200 | 0.15 | 600 |
| GBK321611T-301 □ -N | 300 | 0.15 | 600 |
| GBK321611T-401 □ -N | 400 | 0.15 | 600 |
| GBK321611T-501 □ -N | 500 | 0.15 | 600 |
| GBK321611T-601 □ -N | 600 | 0.2 | 500 |
| GBK321611T-102 □ -N | 1000 | 0.25 | 400 |
| GBK321611T-122 □ -N | 1200 | 0.25 | 400 |
| GBK321611T-202 □ -N | 2000 | 0.35 | 400 |
| GBY321611T-250 □ -N | 25 | 0.1 | 1000 |
| GBY321611T-600 □ -N | 60 | 0.1 | 1000 |
| GBK321611T-700 □ -N | 70 | 0.1 | 1000 |
| GBY322513T-320 □ -N | 32 | 0.1 | 1000 |
| GBY322513T-600 □ -N | 60 | 0.1 | 1000 |
| GBY322513T-900 □ -N | 90 | 0.1 | 1000 |
| GBY451616T-500 □ -N | 50 | 0.1 | 1000 |
| GBY451616T-600 □ -N | 60 | 0.1 | 1000 |
| GBY451616T-800 □ -N | 80 | 0.1 | 1000 |
| GBY451616T-101 □ -N | 100 | 0.18 | 800 |



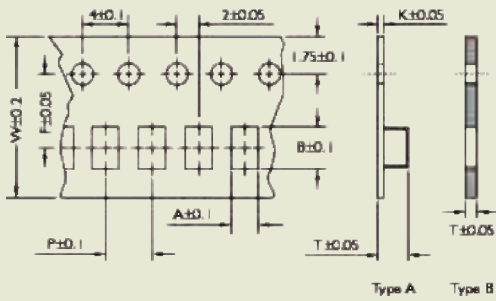
ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

| PART NO. | IMPEDANCE at 100MHz ($\Omega \pm 25\%$) | DC RESISTANCE (Ω) Max. | RATED CURRENT (mA) Max. |
|---------------------|---|---|-----------------------------------|
| GBK451616T-151 □ -N | 150 | 0.18 | 800 |
| GBK451616T-171 □ -N | 170 | 0.18 | 800 |
| GBY453215T-700 □ -N | 70 | 0.18 | 800 |
| GBY453215T-121 □ -N | 120 | 0.18 | 800 |



TAPE DIMENSIONS

Dimensions : mm

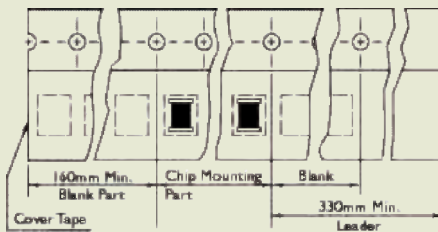


| TYPE | | A | B | T | W | P | F | K | TAPE TYPE |
|----------------|--------|------|------|------|------|-----|-----|------|-----------|
| SB/PB/NB | 100505 | 0.65 | 1.15 | 0.60 | 8.0 | 2.0 | 3.5 | - | B |
| SB/PB/UP/NB/GB | 160808 | 1.10 | 1.85 | 0.95 | 8.0 | 4.0 | 3.5 | - | B |
| SB/PB/UP/NB/GB | 201209 | 1.42 | 2.25 | 0.22 | 8.0 | 4.0 | 3.5 | 1.04 | A |
| SB/PB/UP/NB/GB | 321611 | 1.88 | 3.50 | 0.22 | 8.0 | 4.0 | 3.5 | 1.27 | A |
| SB/GB | 321616 | 1.88 | 3.53 | 0.22 | 8.0 | 4.0 | 3.5 | 1.80 | A |
| SB/GB | 322513 | 2.77 | 3.42 | 0.22 | 8.0 | 4.0 | 3.5 | 1.55 | A |
| SB/PB/GB | 451616 | 1.93 | 4.95 | 0.24 | 12.0 | 4.0 | 5.5 | 1.93 | A |
| SB/PB/GB | 453215 | 3.66 | 4.95 | 0.24 | 12.0 | 8.0 | 5.5 | 1.85 | A |

TAPE MATERIAL

Carrier Tape : Polystyrene (for 201209, 201211, 321611, etc.)
Paper (for 160808, 100505)

Cover Type : Polyethyene

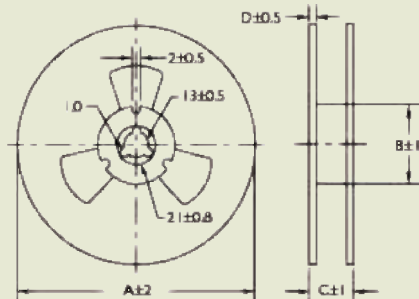


PACKAGING QUANTITY

| TYPE | | BULK | QUANTITY/REEL |
|----------------|--------|------|---------------|
| SB/PB/NB | 100505 | √ | 10000 |
| SB/PB/UP/NB/GB | 160808 | √ | 4000 |
| SB/PB/UP/NB/GB | 201209 | √ | 4000 |
| SB/PB/UP/NB/GB | 321611 | √ | 3000 |
| SB/GB | 321616 | √ | 2000 |
| SB/GB | 322513 | √ | 2500 |
| SB/PB/GB | 451616 | √ | 2000 |
| SB/PB/GB | 453215 | √ | 1000 |

REEL DIMENSIONS

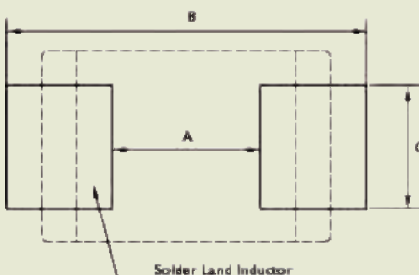
Dimensions : mm



| TYPE | | A | B | C | D |
|----------------|--------|-----|----|----|---|
| SB/PB/NB | 100505 | 178 | 60 | 10 | 2 |
| SB/PB/UP/NB/GB | 160808 | 178 | 60 | 10 | 2 |
| SB/PB/UP/NB/GB | 201209 | 178 | 60 | 10 | 2 |
| SB/PB/UP/NB/GB | 321611 | 178 | 60 | 10 | 2 |
| SB/GB | 321616 | 178 | 60 | 10 | 2 |
| SB/GB | 322513 | 178 | 60 | 10 | 2 |
| SB/PB/GB | 451616 | 178 | 60 | 14 | 2 |
| SB/PB/GB | 453215 | 178 | 60 | 14 | 2 |

RECOMMENDED PATTERN

Dimensions : mm



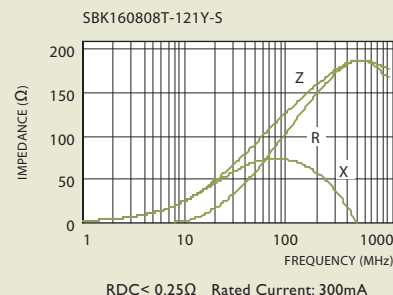
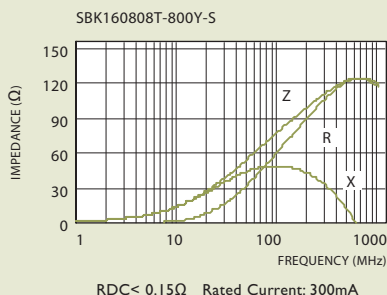
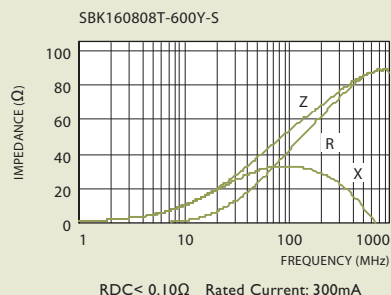
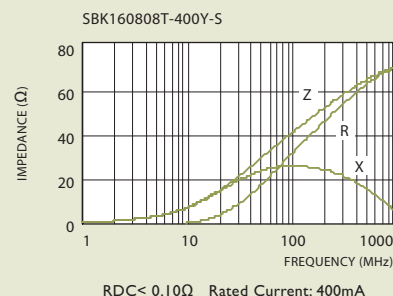
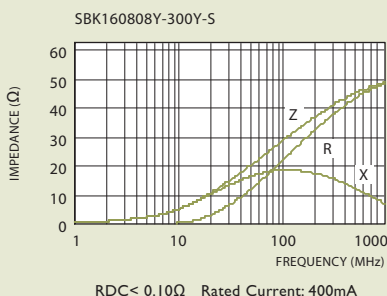
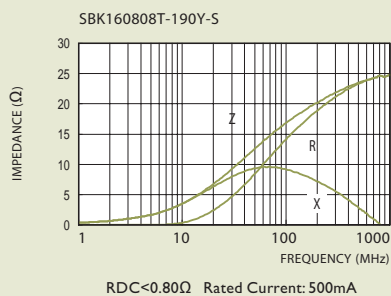
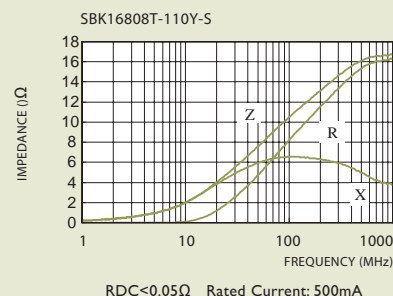
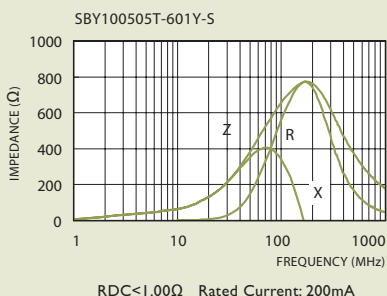
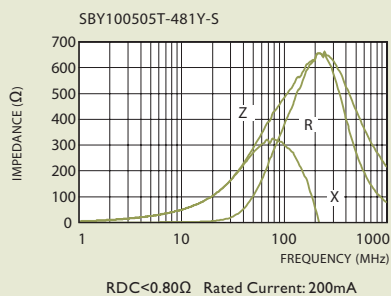
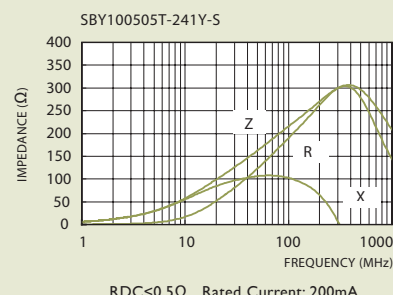
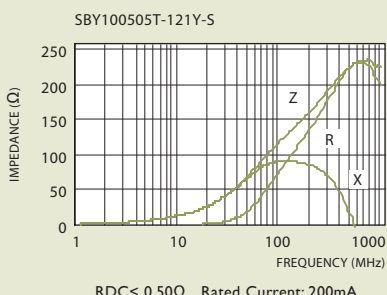
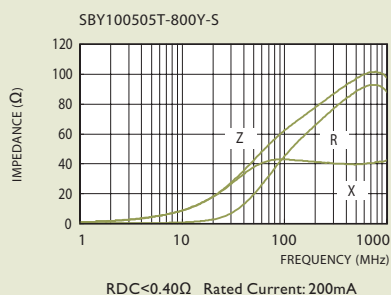
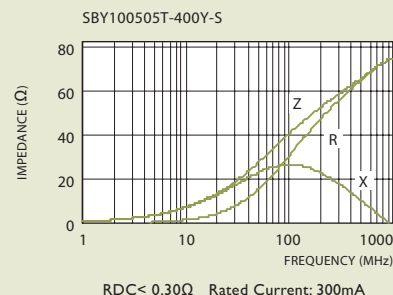
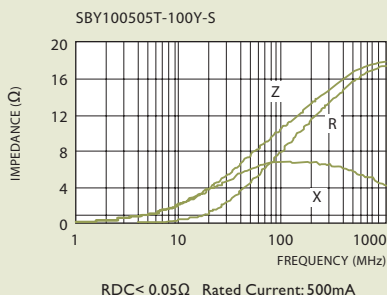
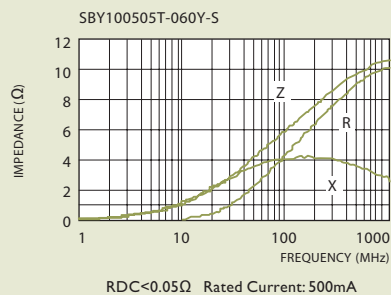
| TYPE | | A | B | C |
|----------------|--------|-----|-----------|-----|
| SB/PB/NB | 100505 | 0.4 | 1.2 ~ 1.4 | 0.4 |
| SB/PB/UP/NB/GB | 160808 | 0.8 | 2.4 ~ 3.4 | 0.6 |
| SB/PB/UP/NB/GB | 201209 | 1.2 | 3.0 ~ 4.0 | 1.0 |
| SB/PB/UP/NB/GB | 321611 | 2.0 | 4.2 ~ 5.2 | 1.2 |
| SB/GB | 321616 | 2.0 | 4.2 ~ 5.2 | 1.2 |
| SB/GB | 322513 | 2.0 | 5.5 ~ 6.5 | 1.8 |
| SB/PB/GB | 451616 | 3.0 | 5.5 ~ 6.5 | 1.2 |
| SB/PB/GB | 453215 | 3.0 | 5.5 ~ 6.5 | 2.4 |

* Don't apply narrower pattern than listed above to PB/UP and upb
Narrow pattern might cause excessive heat or open circuit.



TYPICAL ELECTRICAL CHARACTERISTICS

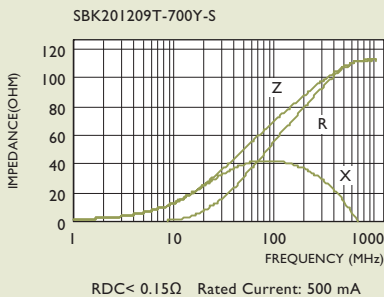
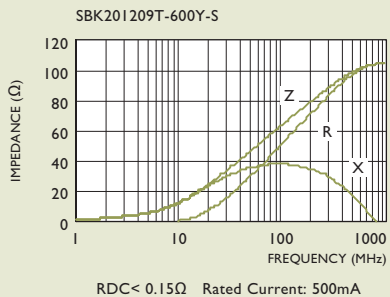
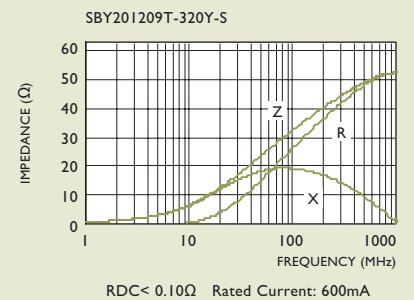
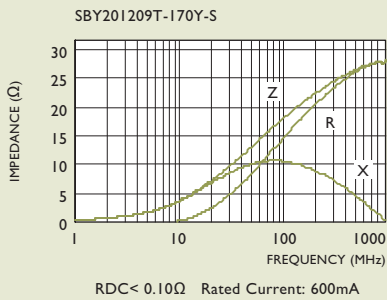
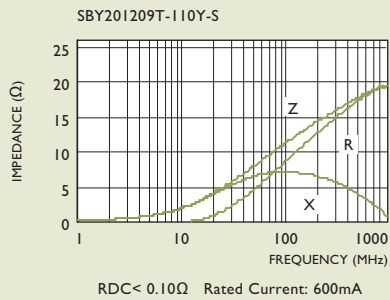
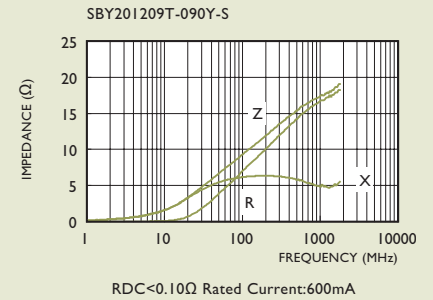
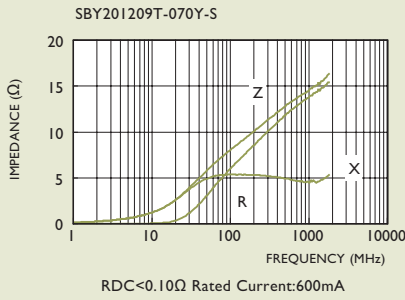
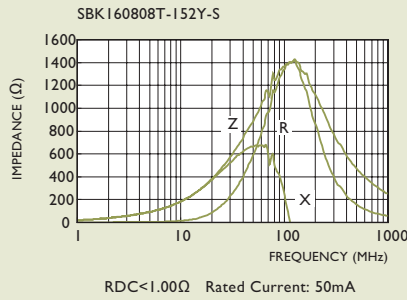
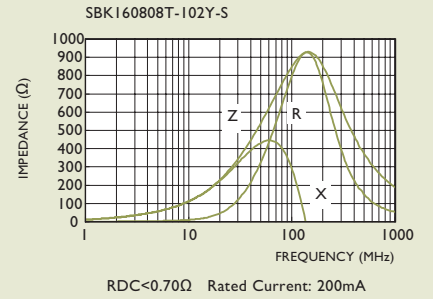
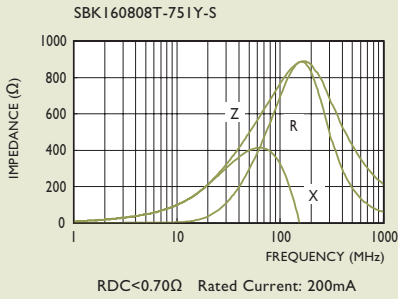
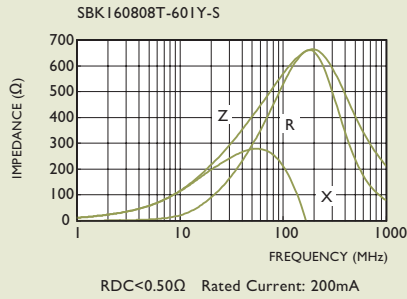
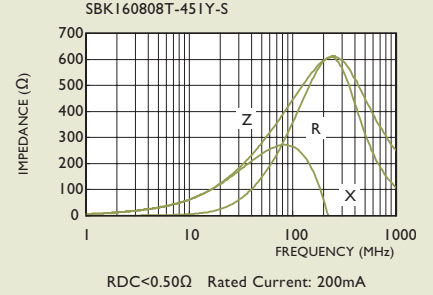
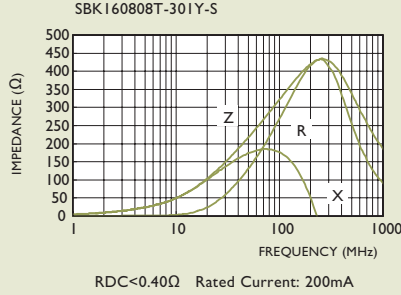
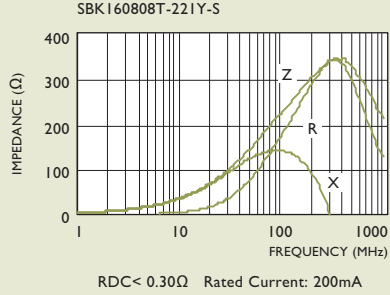
Test Instruments : HP4291A Impedance / Material Analyzer





TYPICAL ELECTRICAL CHARACTERISTICS

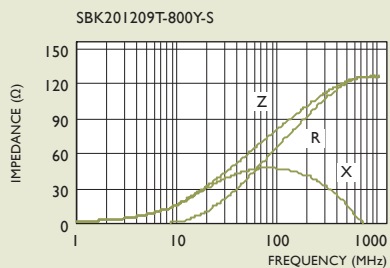
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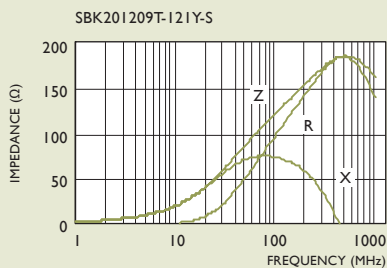


TYPICAL ELECTRICAL CHARACTERISTICS

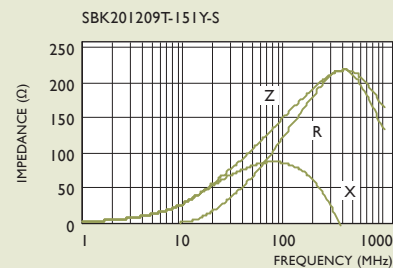
Test Instruments : HP4291A Impedance / Material Analyzer



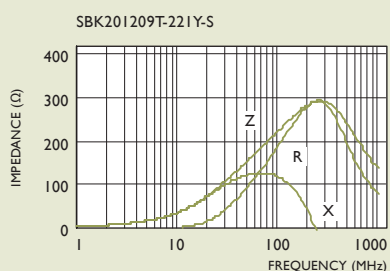
RDC < 0.15Ω Rated Current: 500mA



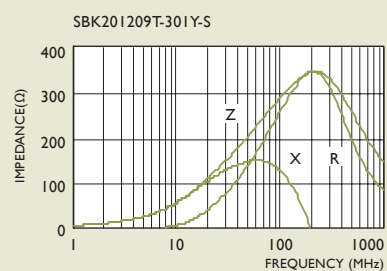
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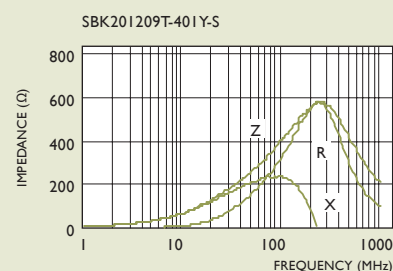
RDC < 0.25Ω Rated Current: 300mA



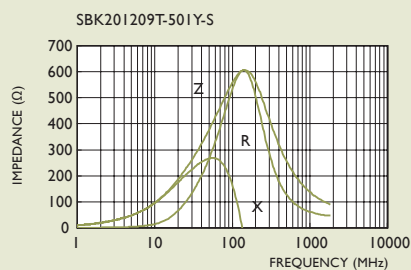
RDC < 0.30 Ω Rated Current: 300mA



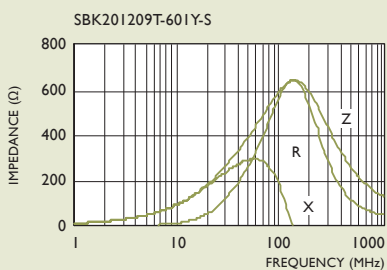
RDC < 0.30 Ω Rated Current: 300mA



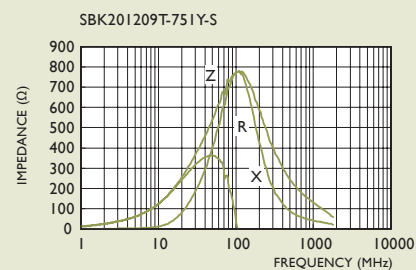
RDC < 0.30 Ω Rated Current: 300mA



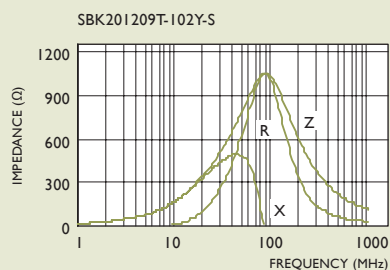
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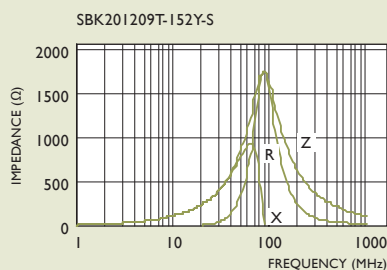
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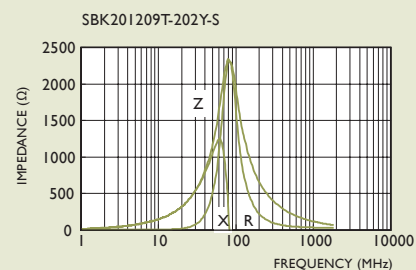
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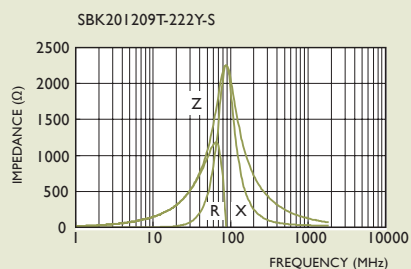
RDC < 0.50Ω Rated Current: 200mA



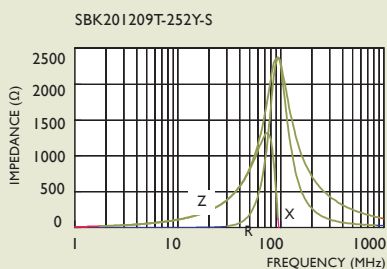
RDC < 0.60Ω Rated Current: 200mA



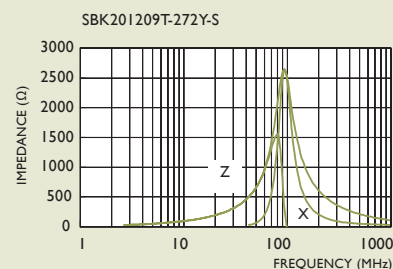
RDC < 0.80 Ω Rated Current: 100mA



RDC < 1.00 Ω Rated Current: 100mA



RDC < 1.00Ω Rated Current: 600mA

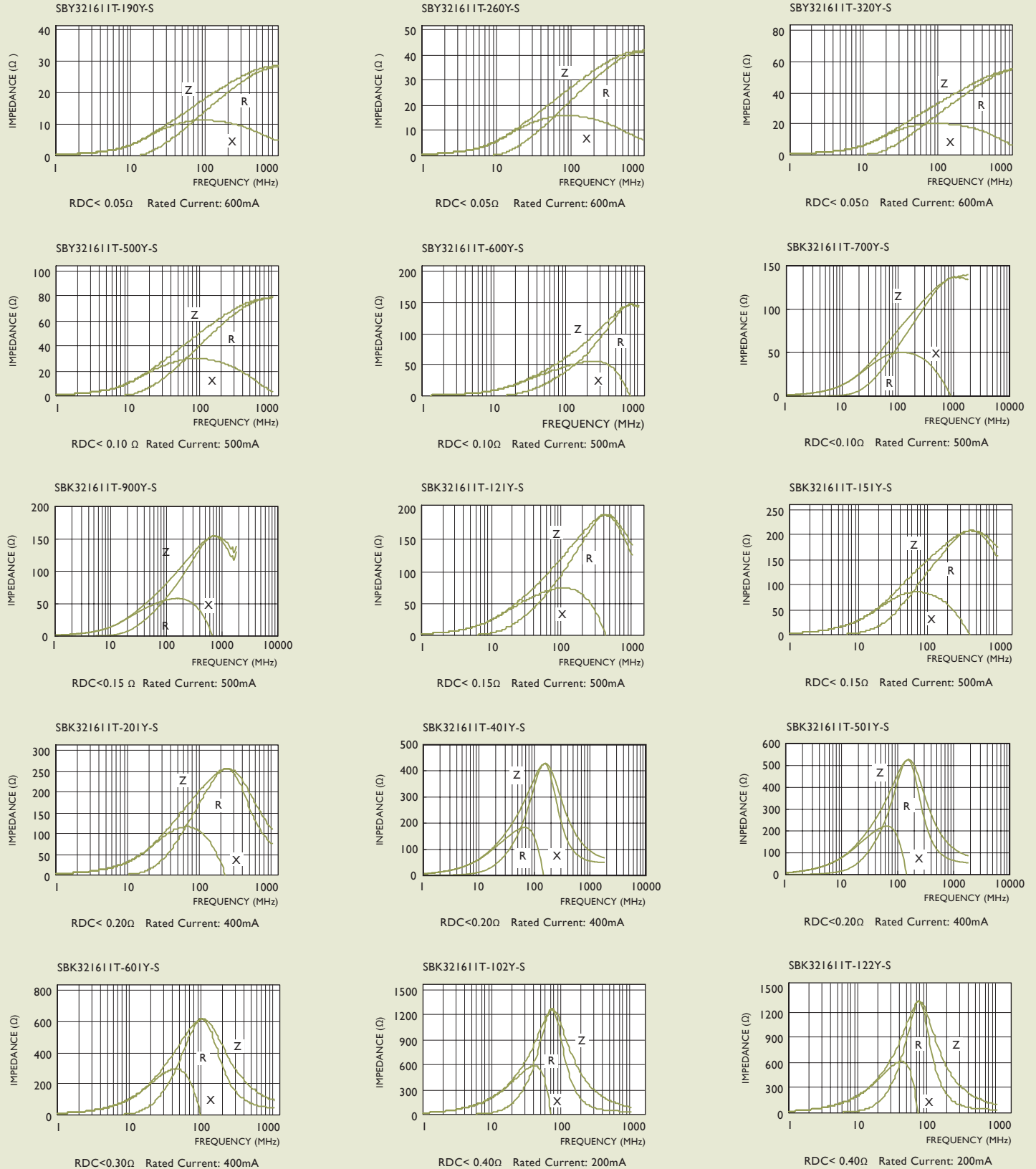


RDC < 1.50 Ω Rated Current: 600mA



TYPICAL ELECTRICAL CHARACTERISTICS

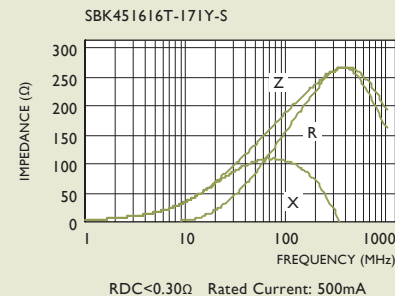
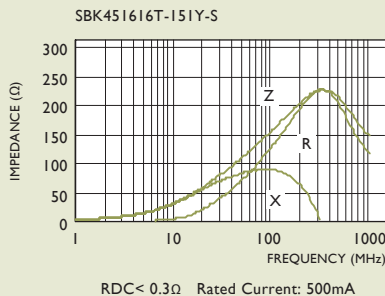
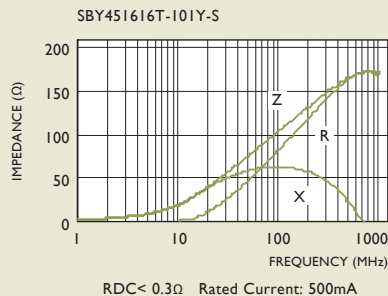
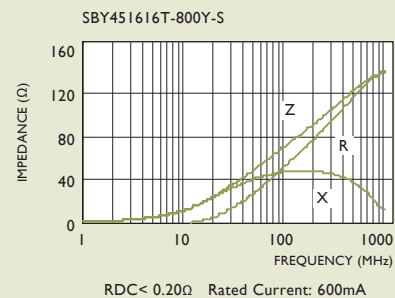
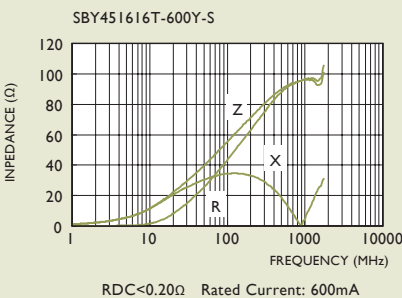
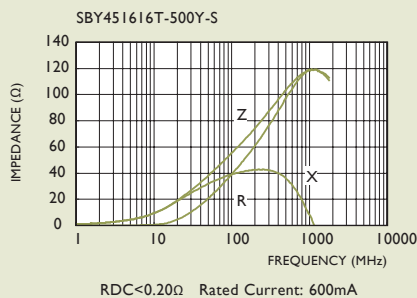
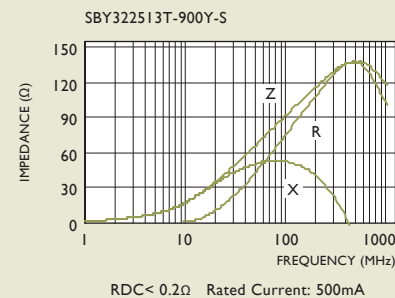
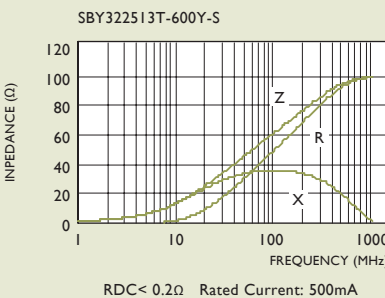
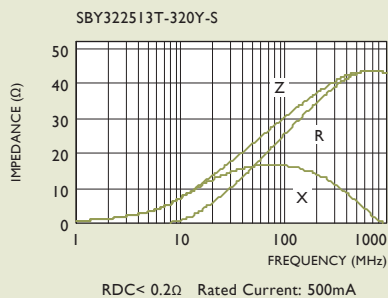
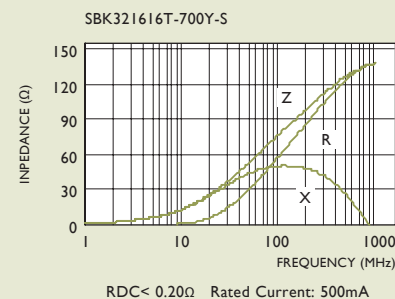
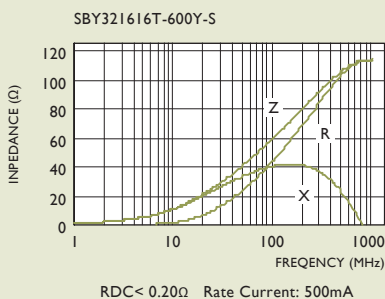
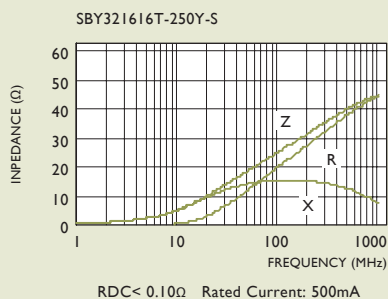
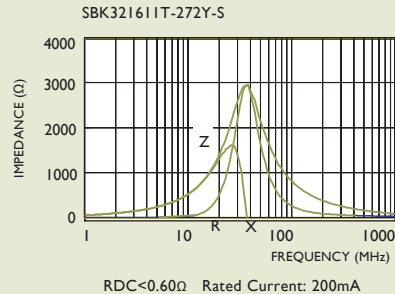
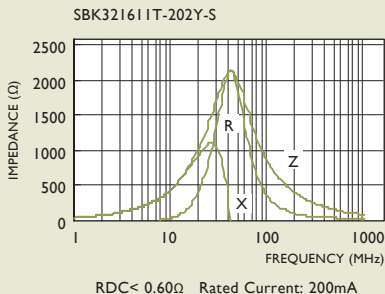
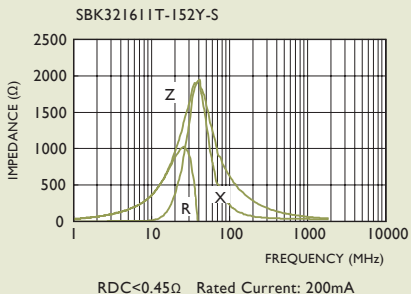
Test Instruments : HP4291A Impedance / Material Analyzer





TYPICAL ELECTRICAL CHARACTERISTICS

Test Instruments : HP4291A Impedance / Material Analyzer

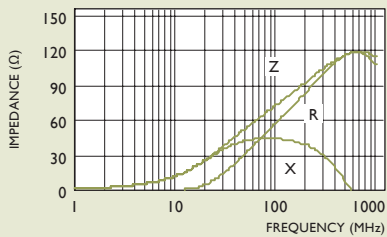




TYPICAL ELECTRICAL CHARACTERISTICS

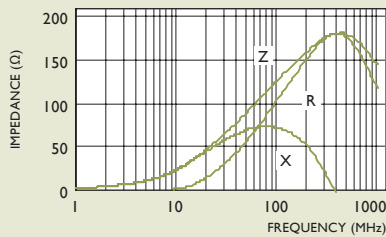
Test Instruments : HP4291A Impedance / Material Analyzer

SBY453215T-700Y-S



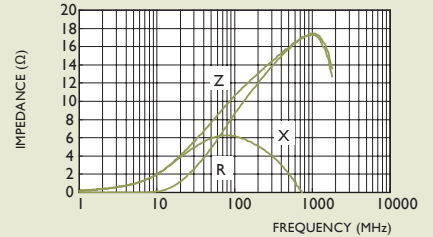
RDC < 0.3Ω Rated Current: 500mA

SBY453215T-121Y-S



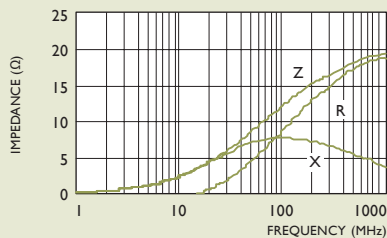
RDC < 0.3Ω Rated Current: 500mA

PBY100505T-100Y-S



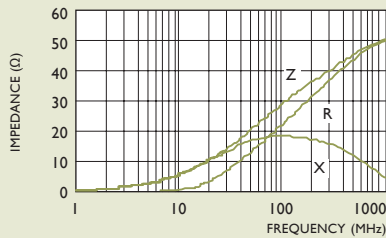
RDC < 0.03Ω Rated Current: 1000mA

PBY160808T-110Y-S



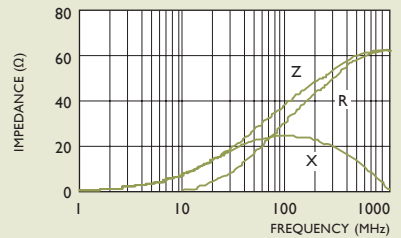
RDC < 0.020Ω Rated Current: 4000mA

PBY160808T-250Y-S



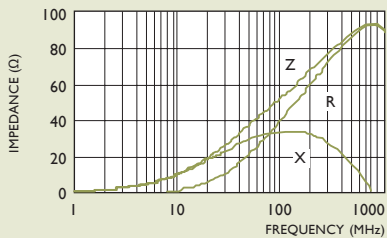
RDC < 0.03Ω Rated Current: 3000mA

PBY160808T-400Y-S



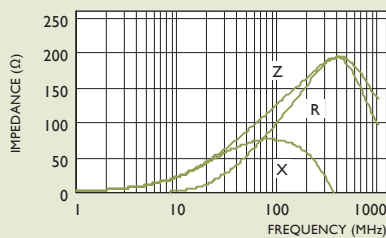
RDC < 0.035Ω Rated Current: 3000mA

PBY160808T-600Y-S



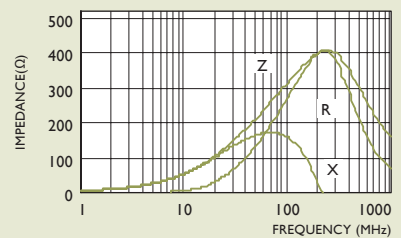
RDC < 0.04Ω Rated Current: 3000mA

PBY160808T-121Y-S



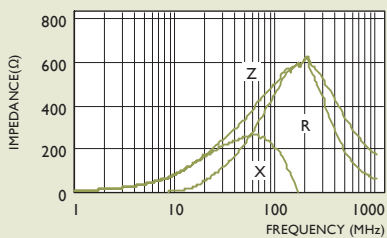
RDC < 0.08Ω Rated Current: 2500mA

PBY160808T-301Y-S



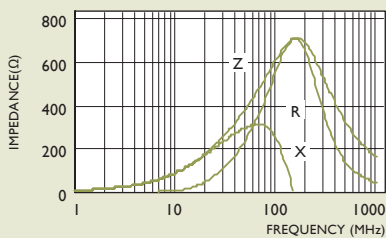
RDC < 0.10Ω Rated Current: 2000mA

PBY160808T-501Y-S



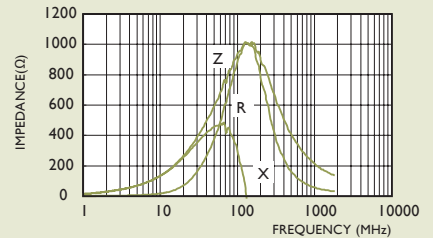
RDC < 0.15Ω Rated Current: 1500mA

PBY160808T-601Y-S



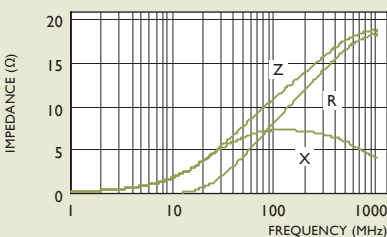
RDC < 0.20Ω Rated Current: 1000mA

PBY160808T-102Y-S



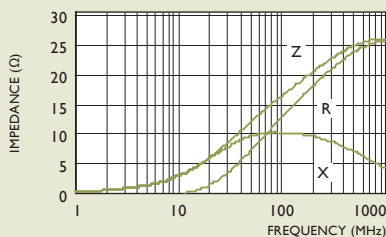
RDC < 0.25Ω Rated Current: 800mA

PBY201209T-110Y-S



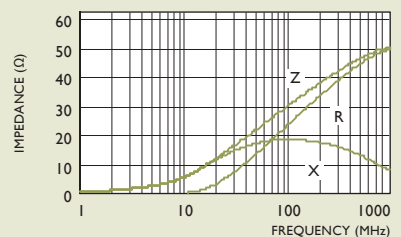
RDC < 0.01Ω Rated Current: 6000mA

PBY201209T-170Y-S



RDC < 0.02Ω Rated Current: 5000mA

PBY201209T-300Y-S

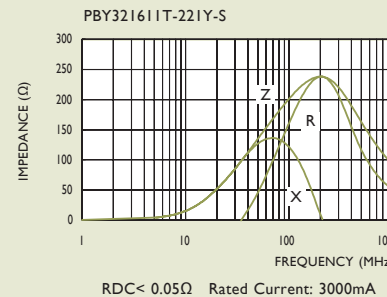
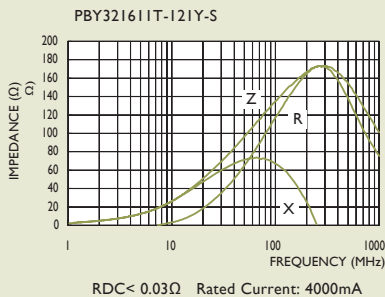
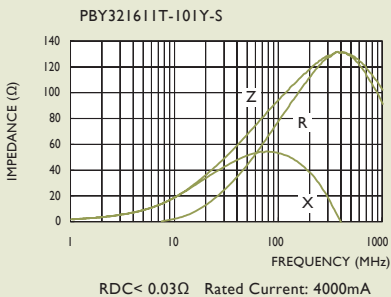
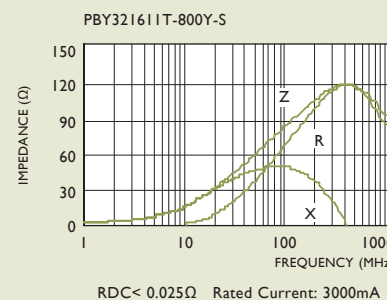
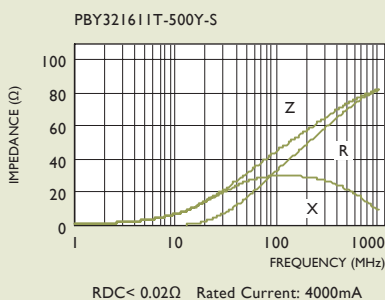
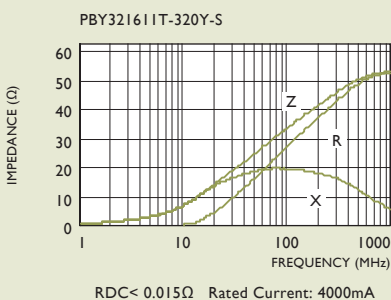
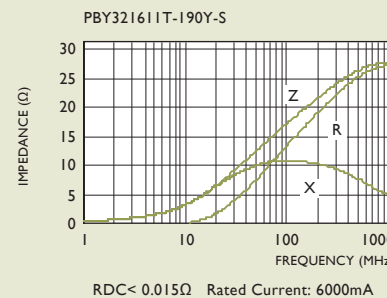
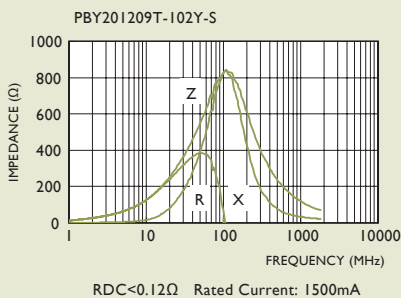
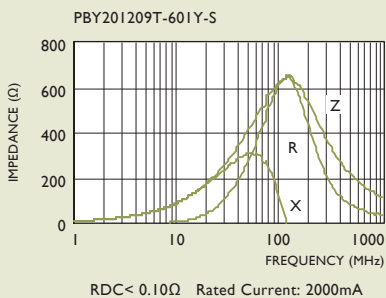
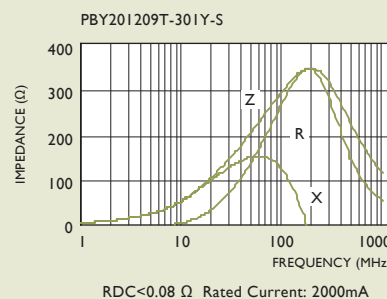
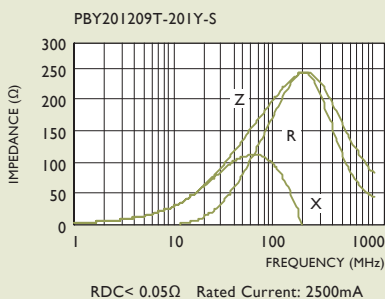
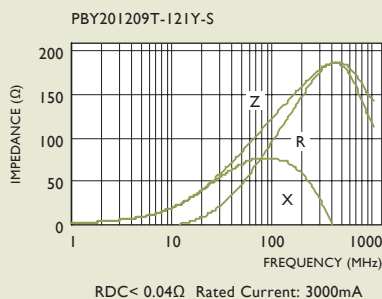
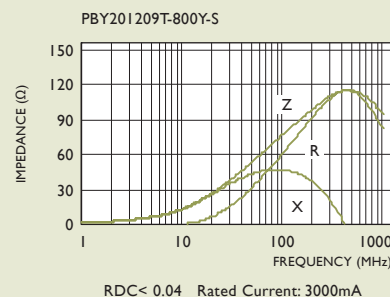
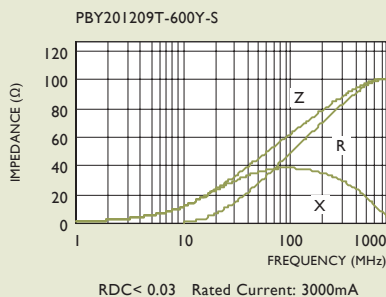
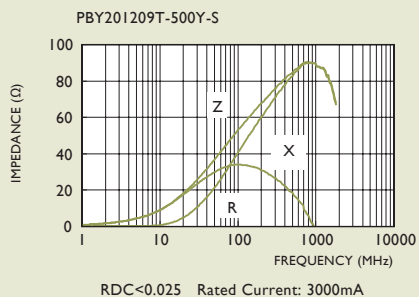


RDC < 0.15Ω Rated Current: 4000mA



TYPICAL ELECTRICAL CHARACTERISTICS

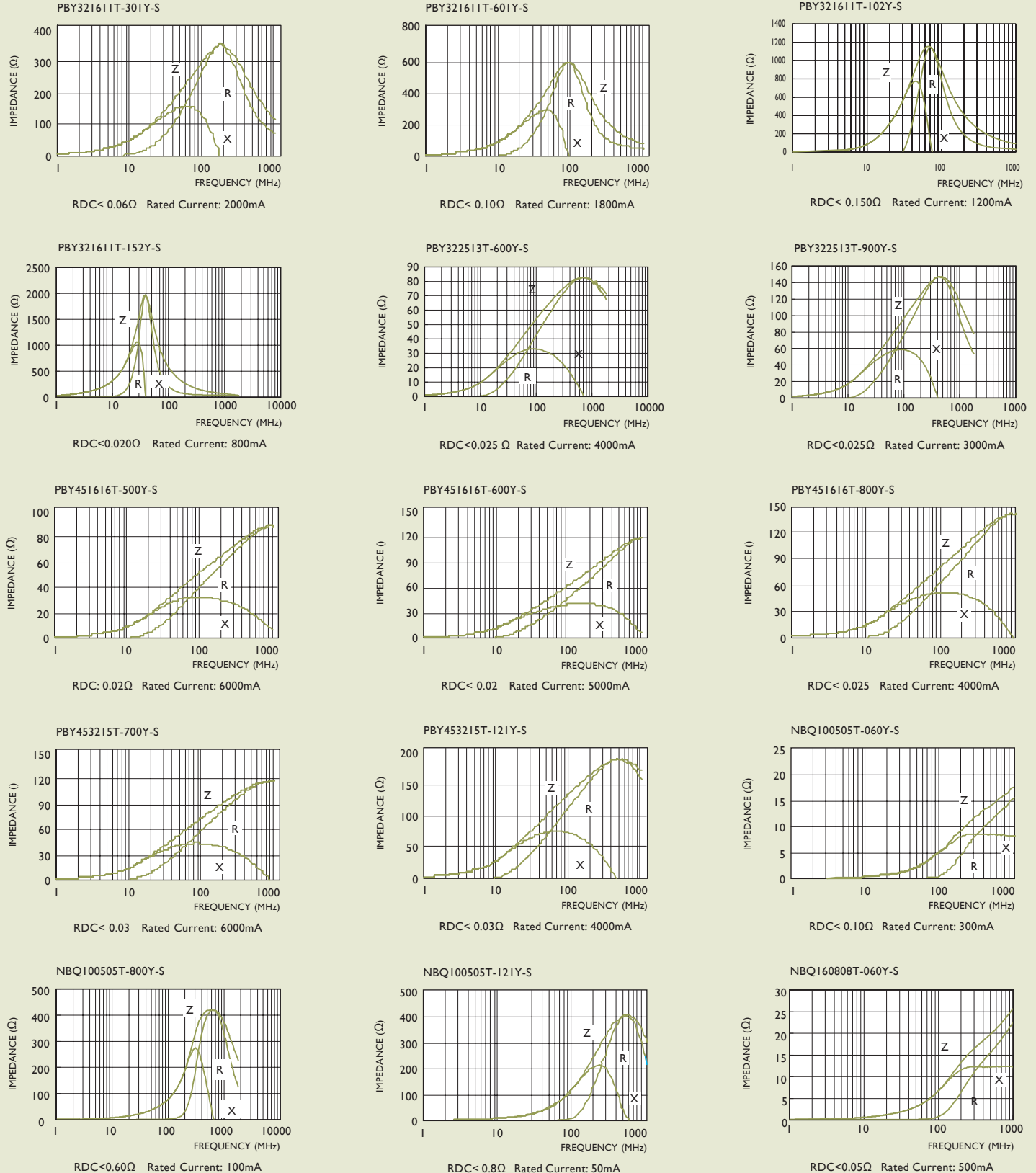
Test Instruments : HP4291A Impedance / Material Analyzer





TYPICAL ELECTRICAL CHARACTERISTICS

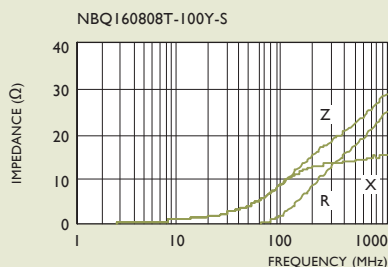
Test Instruments : HP4291A Impedance / Material Analyzer



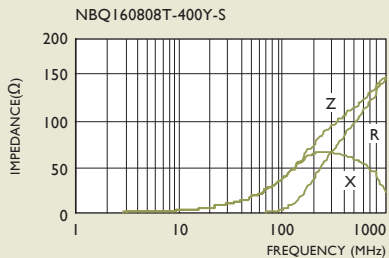


TYPICAL ELECTRICAL CHARACTERISTICS

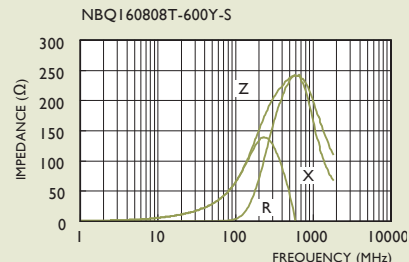
Test Instruments : HP4291A Impedance / Material Analyzer



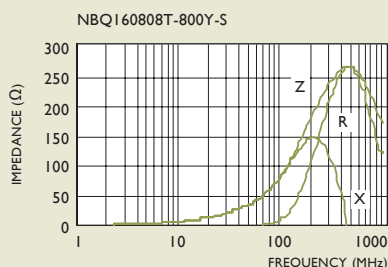
RDC < 0.07Ω Rated Current: 400mA



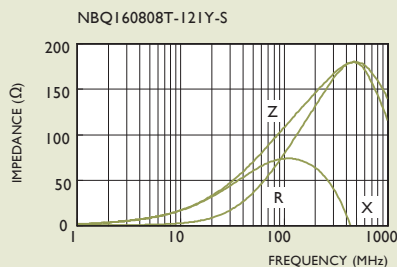
RDC < 0.2Ω Rate Current: 300mA



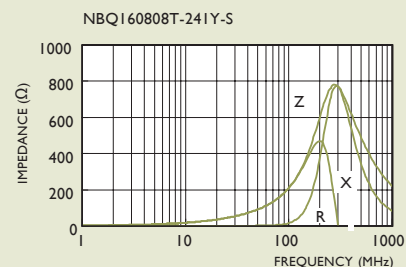
RDC < 0.25Ω Rated Current: 300mA



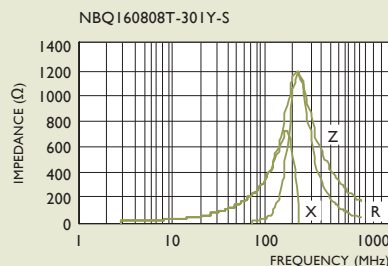
RDC < 0.25Ω Rated Current: 300mA



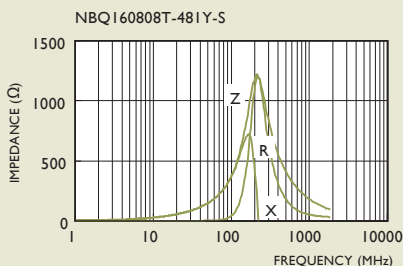
RDC < 0.30Ω Rated Current: 300mA



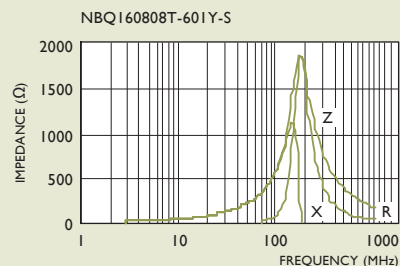
RDC < 0.35Ω Rated Current: 200mA



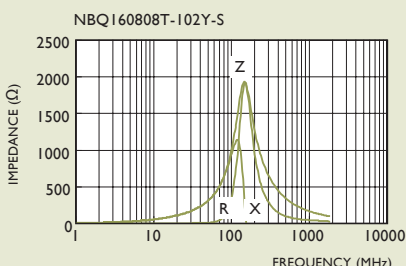
RDC < 0.4Ω Rated Current: 200mA



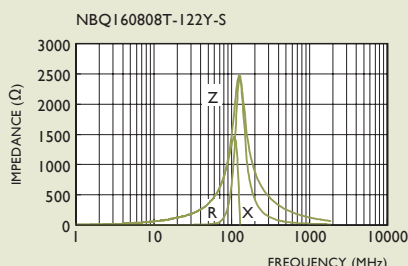
RDC < 0.50Ω Rated Current: 200mA



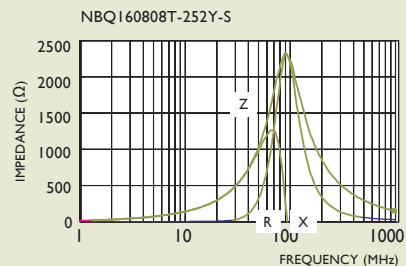
RDC < 0.5Ω Rated Current: 200mA



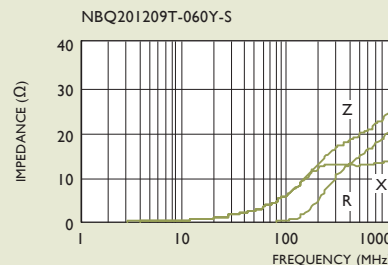
RDC < 0.6Ω Rated Current: 100mA



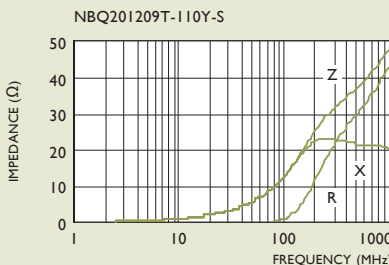
RDC < 0.60Ω Rated Current: 100mA



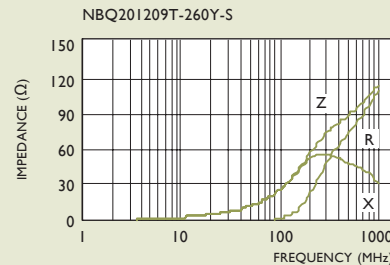
RDC < 0.10Ω Rated Current: 50mA



RDC < 0.07Ω Rated Current: 800mA



RDC < 0.1Ω Rated Current: 700mA

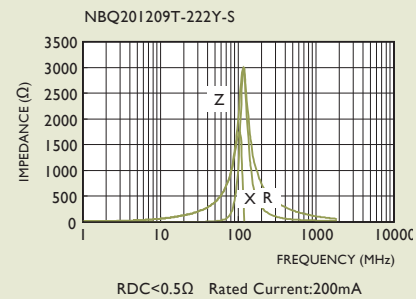
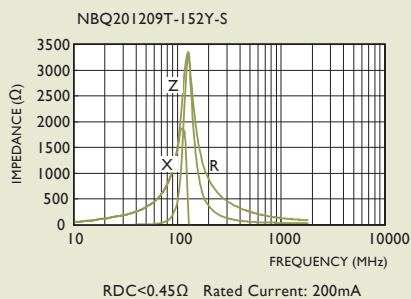
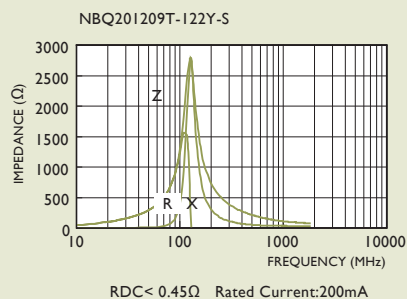
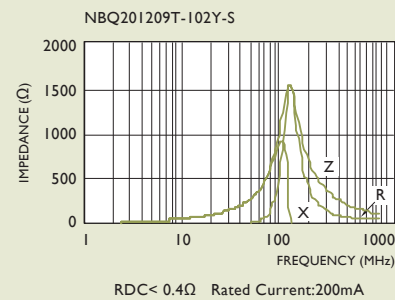
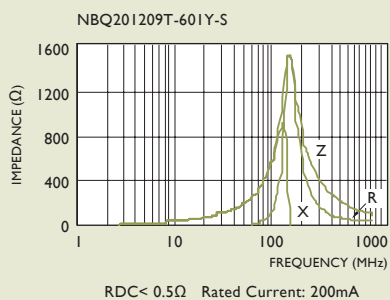
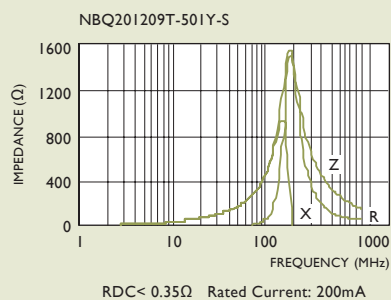
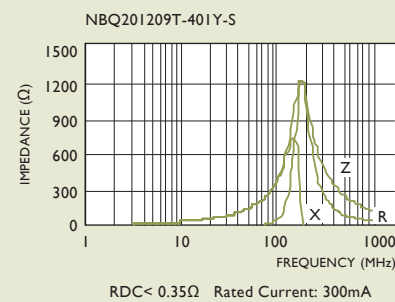
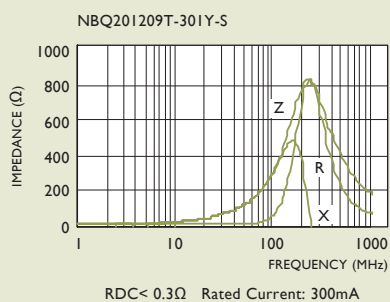
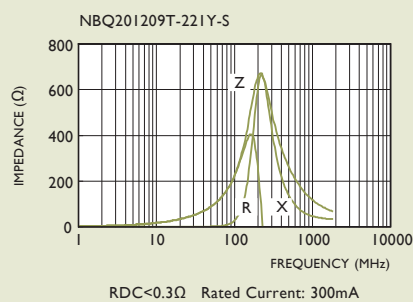
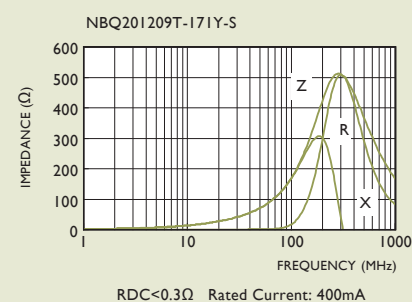
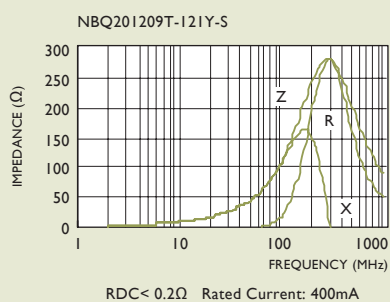
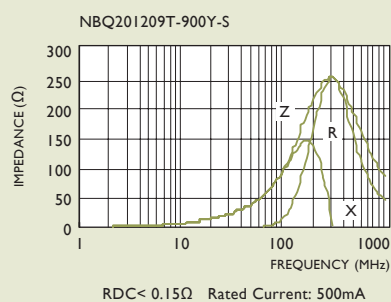
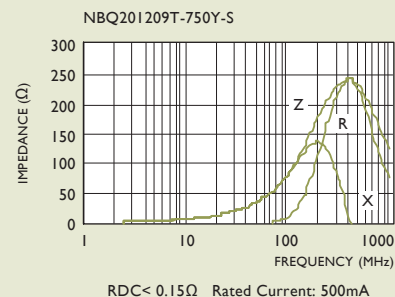
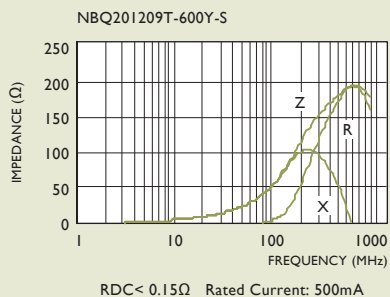
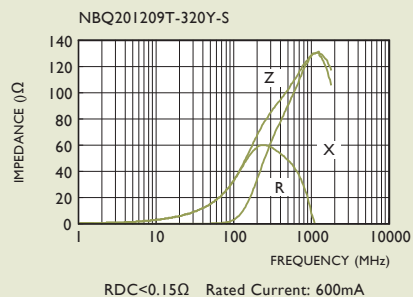


RDC < 0.15Ω Rated Current: 600mA



TYPICAL ELECTRICAL CHARACTERISTICS

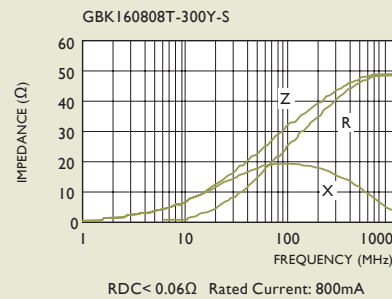
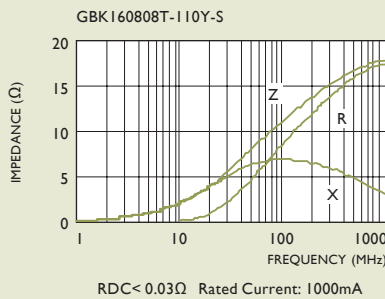
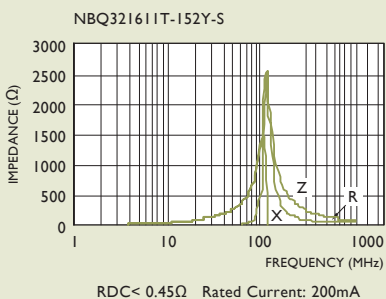
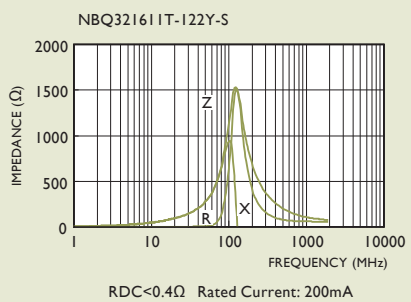
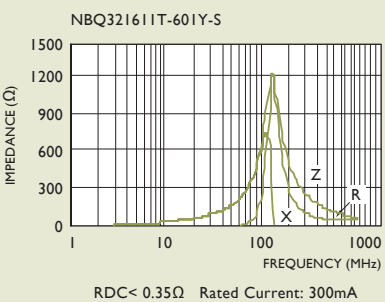
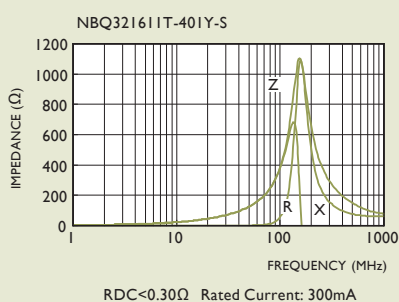
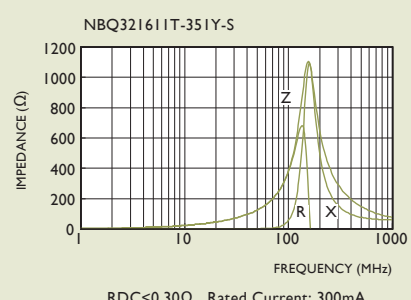
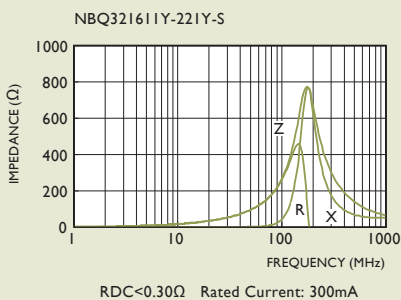
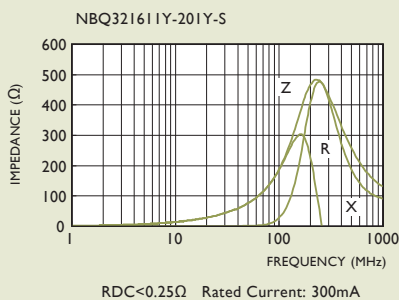
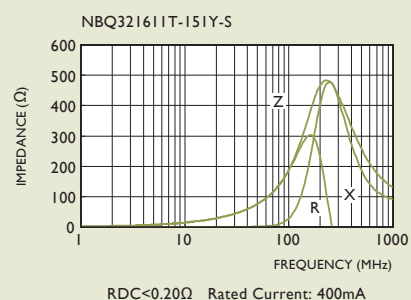
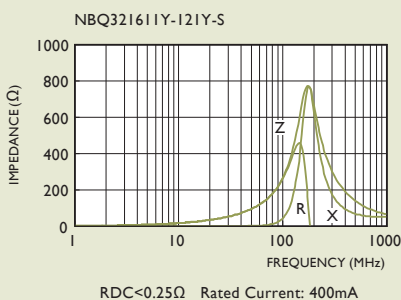
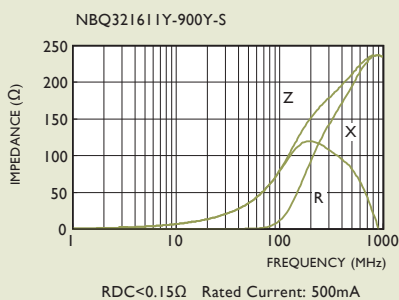
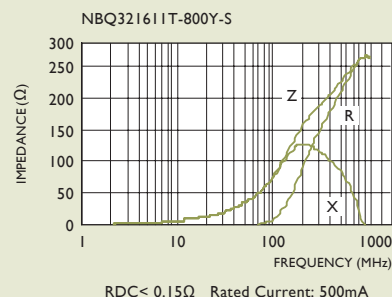
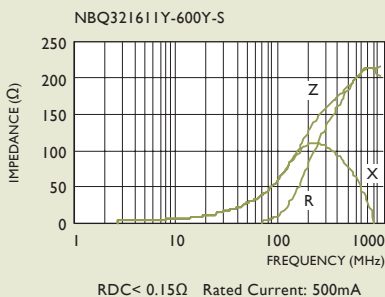
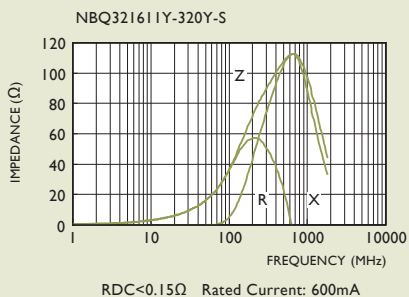
Test Instruments : HP4291A Impedance / Material Analyzer





TYPICAL ELECTRICAL CHARACTERISTICS

Test Instruments : HP4291A Impedance / Material Analyzer

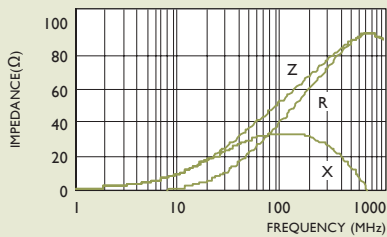




TYPICAL ELECTRICAL CHARACTERISTICS

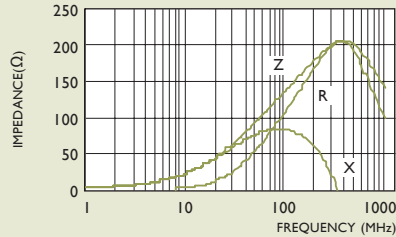
Test Instruments : HP4291A Impedance / Material Analyzer

GBK160808T-600Y-S



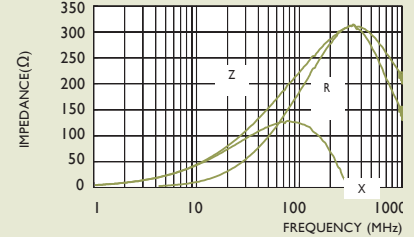
RDC < 0.06Ω Rated Current: 600mA

GBK160808T-121Y-S



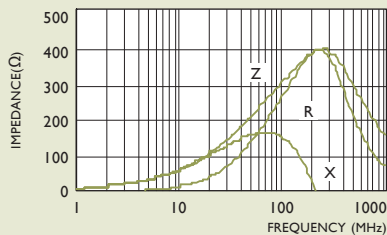
RDC < 0.15Ω Rated Current: 600mA

GBK160808T-221Y-S



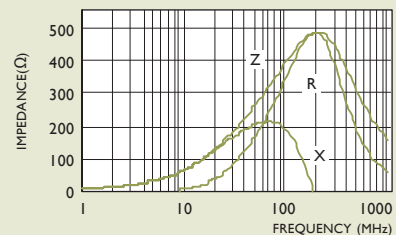
RDC < 0.18Ω Rated Current: 400mA

GBK160808T-301Y-S



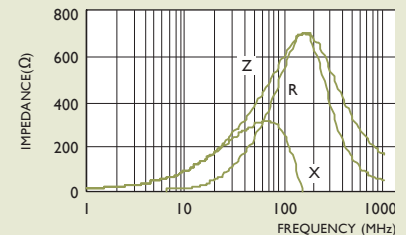
RDC < 0.25Ω Rated Current: 400mA

GBK160808T-451Y-S



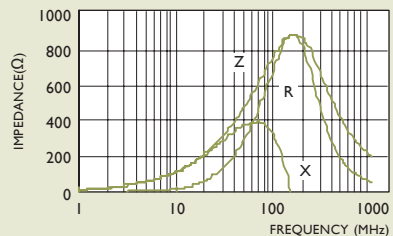
RDC < 0.3Ω Rated Current: 400mA

GBK160808T-601Y-S



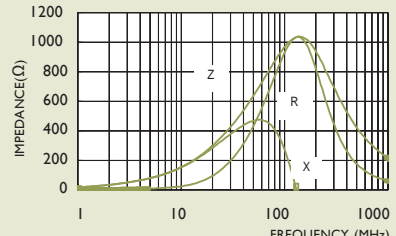
RDC < 0.30Ω Rated Current: 400mA

GBK160808Y-751Y-S



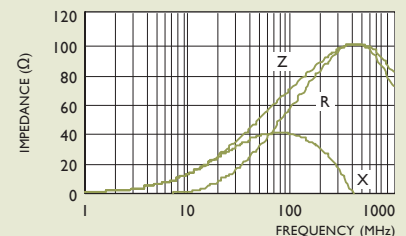
RDC < 0.45Ω Rated Current: 300mA

GBK160808T-102Y-S



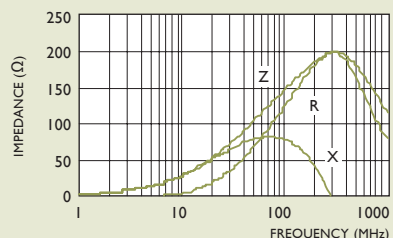
RDC < 0.15Ω Rated Current: 600mA

GBK201209T-700Y-S



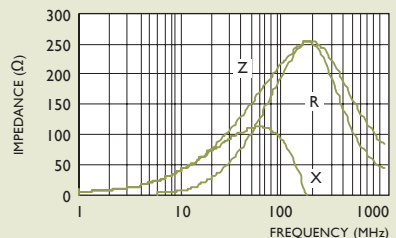
RDC < 0.10Ω Rated Current: 800mA

GBK201209T-151Y-S



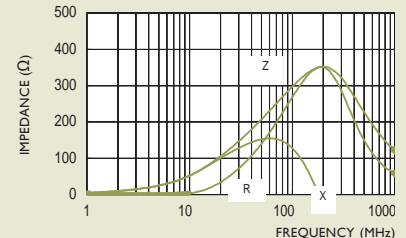
RDC < 0.15Ω Rated Current: 600mA

GBK201209T-221Y-S



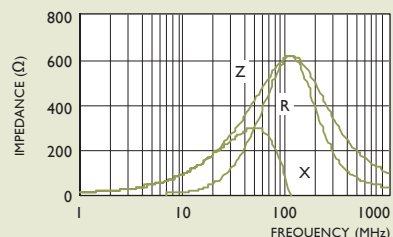
RDC < 0.18Ω Rated Current: 600mA

GBK201209T-301Y-S



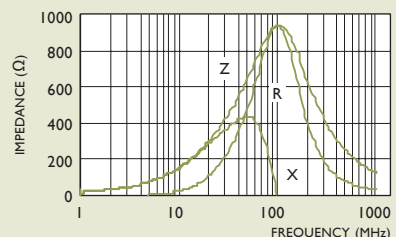
RDC < 0.18Ω Rated Current: 600mA

GBK201209T-601Y-S



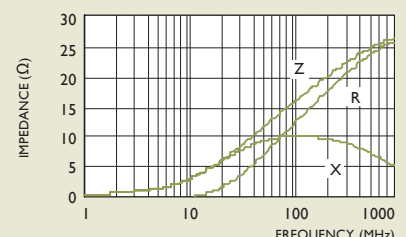
RDC < 0.25Ω Rated Current: 500mA

GBK201209T-102Y-S



RDC < 0.30Ω Rated Current: 400mA

GBY321611T-190Y-S

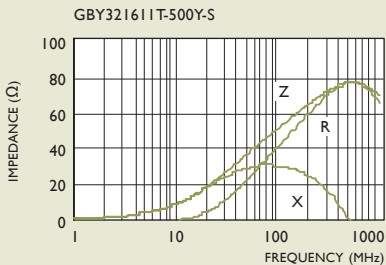


RDC < 0.03Ω Rated Current: 1000mA

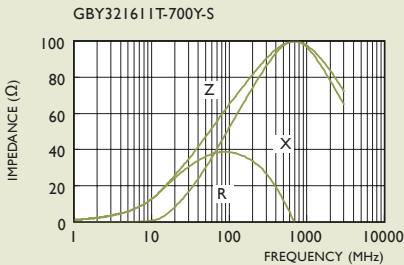


TYPICAL ELECTRICAL CHARACTERISTICS

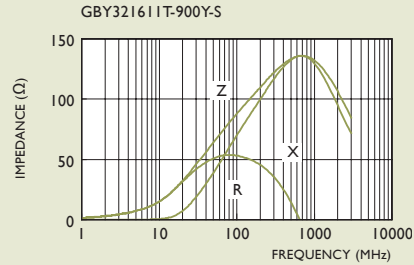
Test Instruments : HP4291A Impedance / Material Analyzer



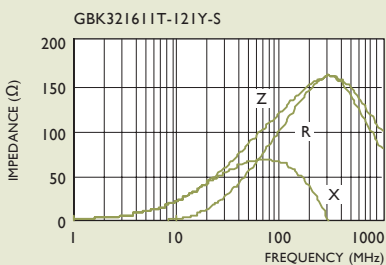
RDC < 0.06Ω Rated current: 800mA



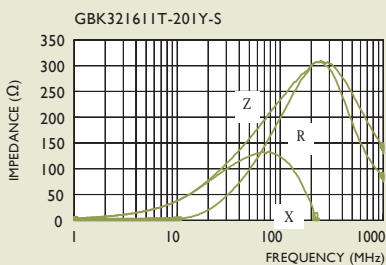
RDC < 0.06Ω Rated current: 800mA



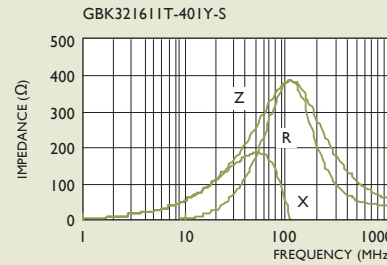
RDC < 0.10Ω Rated current: 800mA



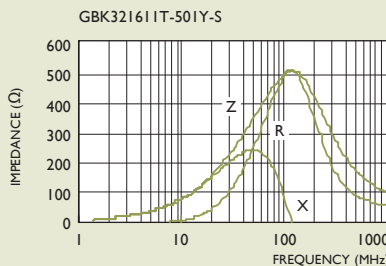
RDC < 0.10 Rated Current: 800mA



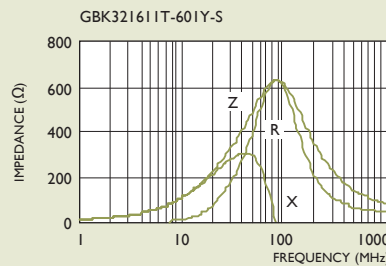
RDC < 0.15Ω Rated Current: 500mA



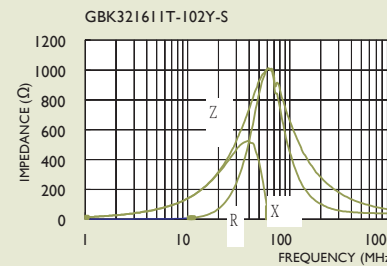
RDC < 0.15Ω Rated Current: 600mA



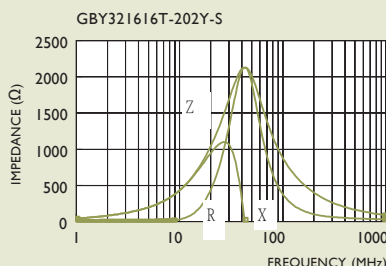
RDC < 0.15Ω Rated Current: 600mA



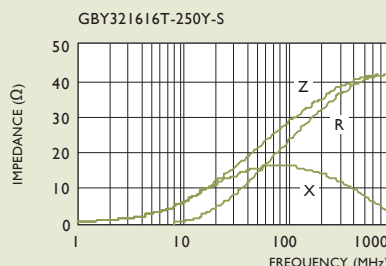
RDC < 0.20Ω Rated Current: 500mA



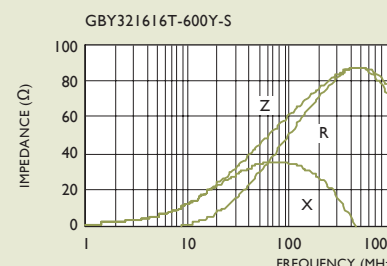
RDC < 0.25Ω Rated Current: 400mA



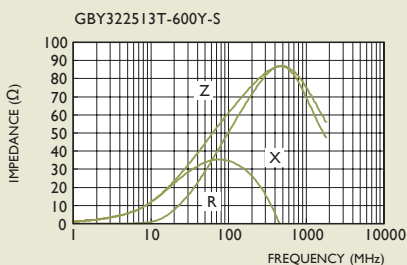
RDC < 0.35Ω Rated Current: 400mA



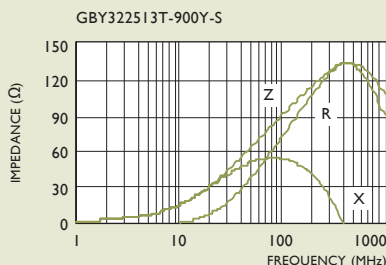
RDC < 0.10Ω Rated Current: 1000mA



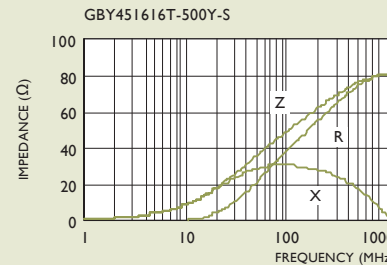
RDC < 0.10Ω Rated Current: 1000mA



RDC < 0.10Ω Rated Current: 1000mA



RDC < 0.10Ω Rated Current: 1000mA

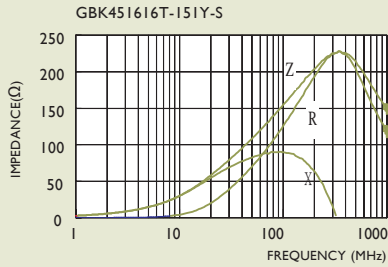


RDC < 0.10Ω Rated Current: 1000mA

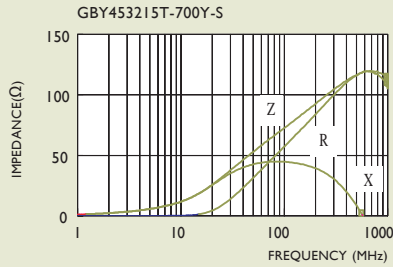


TYPICAL ELECTRICAL CHARACTERISTICS

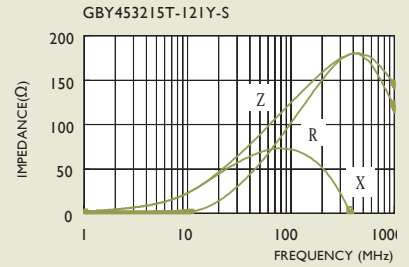
Test Instruments : HP4291A Impedance / Material Analyzer



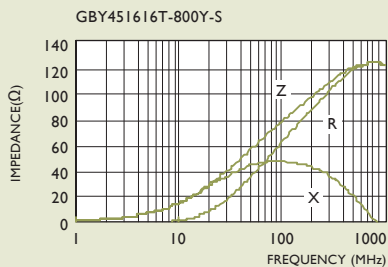
RDC < 0.18Ω Rated Current: 800mA



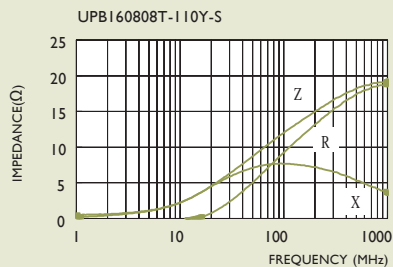
RDC < 0.18Ω Rated Current: 800mA



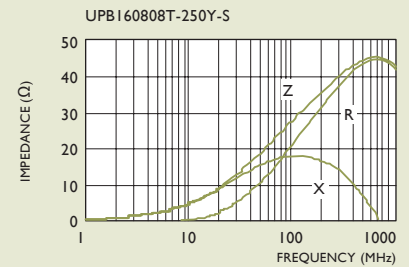
RDC < 0.18Ω Rated Current: 800mA



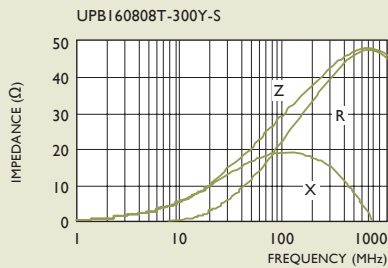
RDC < 0.10Ω Rated Current: 1000mA



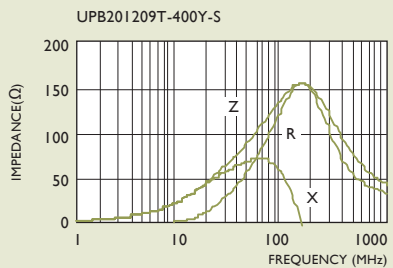
RDC < 0.015Ω Rated Current: 800mA



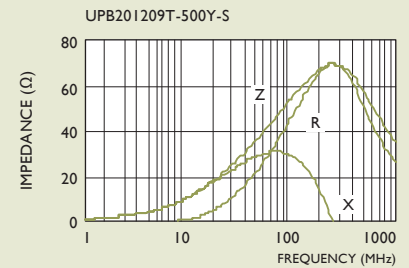
RDC < 0.015Ω Rated Current: 4500mA



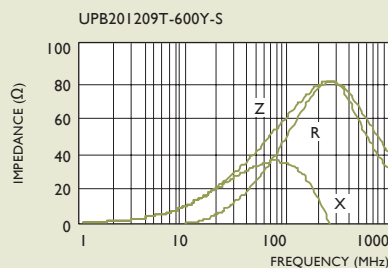
RDC < 0.015Ω Rated Current: 4500mA



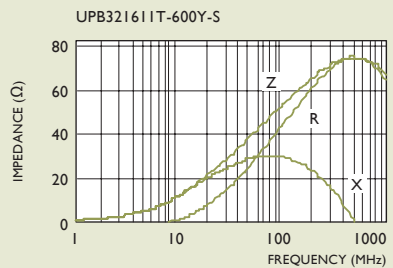
RDC < 0.015Ω Rated Current: 5000mA



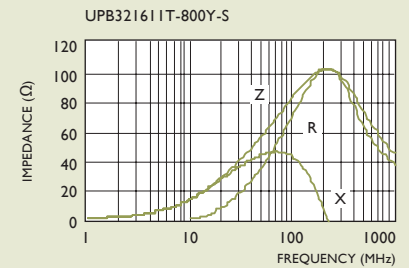
RDC < 0.015Ω Rated Current: 5000mA



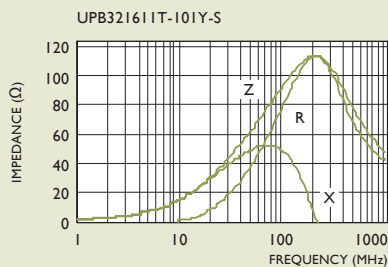
RDC < 0.02Ω Rated Current: 4500mA



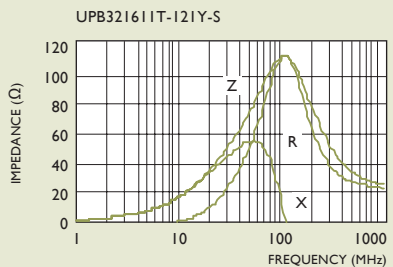
RDC < 0.02Ω Rated Current: 6000mA



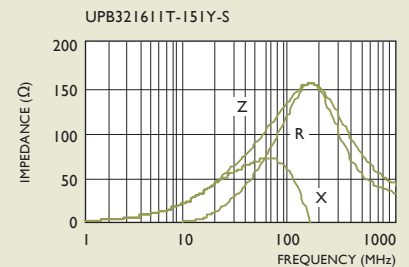
RDC < 0.012Ω Rated Current: 6000mA



RDC < 0.012Ω Rated Current: 6000mA



RDC < 0.012Ω Rated Current: 6000mA

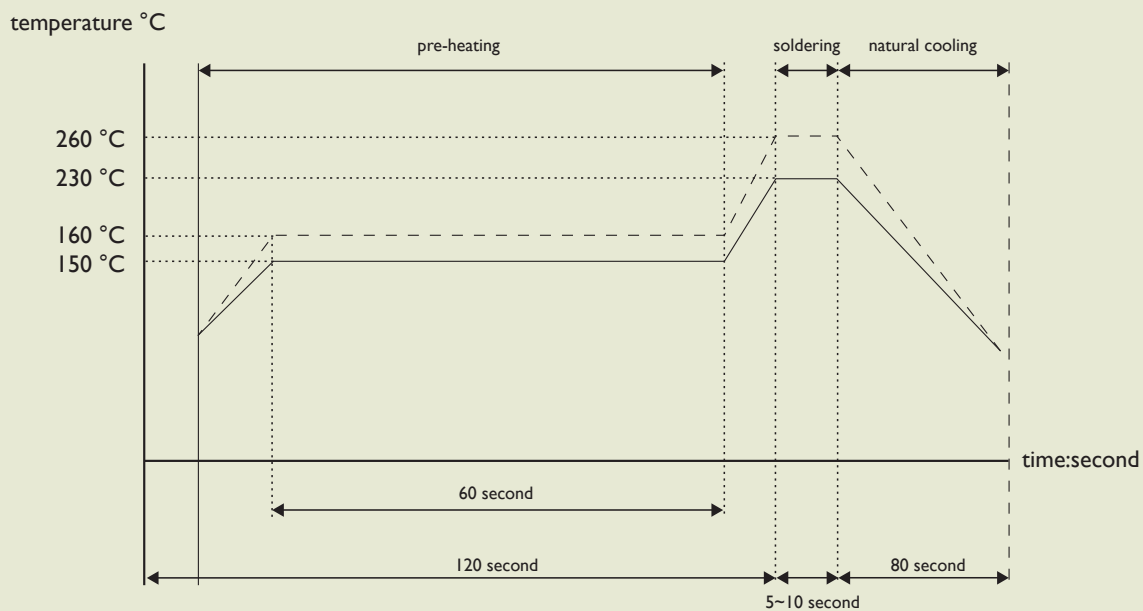


RDC < 0.02Ω Rated Current: 4500mA



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for: CL/ CLH/ SQV/ SMD power inductors/ SMD Chip Beads/ SMD Filters, Transformers, Current Sensors



for: lead solder

—————

for: lead-free solder

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