

Molded SMD Power Inductors – MWSA–S Series



Operating temp. : -40°C ~+125°C (Including self-heating)

FEATURES

- ◆ Metal material for large current and low DCR
- ◆ Closed magnetic circuit design reduces leakage flux
- ◆ Halogen free, RoHS compliant

APPLICATIONS

- ◆ TV, graphics, memory
- ◆ Notebooks, tablets
- ◆ Communication equipments, industrial equipments

PRODUCT IDENTIFICATION

| | | | | | |
|-------------|--------------|------------|---|----------|-----|
| 1 | 2 | 3 | 4 | 5 | 6 |
| MWSA | 0412S | XXX | □ | T | □□□ |

| 1 Type | |
|--------|----------------------------|
| MWSA | Molded SMD Power Inductors |

| 3 Nominal Inductance[μH] | |
|--------------------------|-------------------|
| Example | Nominal Value[μH] |
| R15 | 0.15μH |
| 1R0 | 1.0μH |

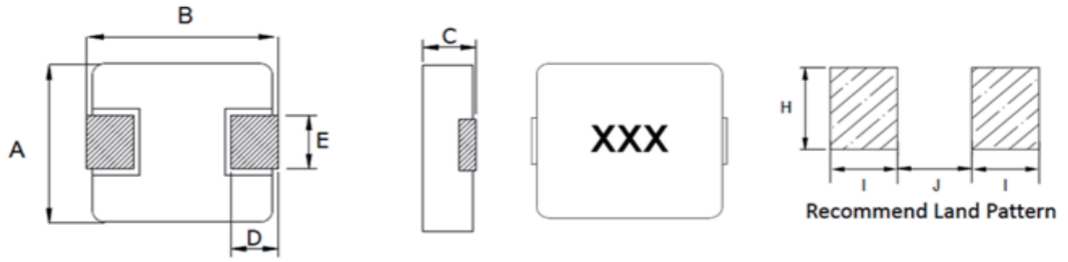
| 4 Inductance Tolerance | |
|------------------------|------|
| M | ±20% |

| 5 Packing | |
|-----------|-------------|
| T | Tape & Reel |

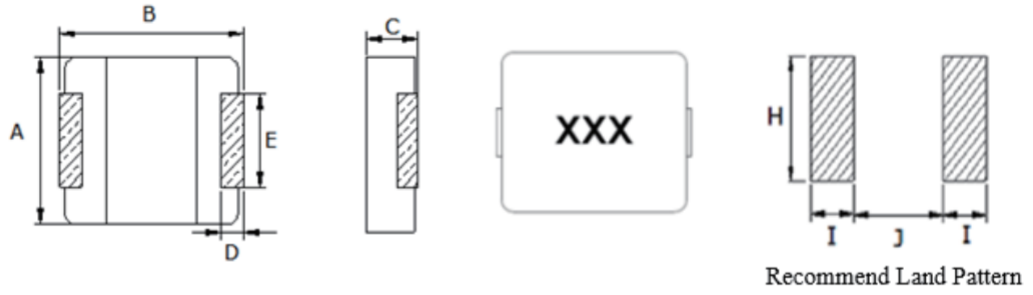
| 6 Design Code | |
|-----------------------------|-------------|
| □□□ | Design Code |
| * Standard product is blank | |

| 2 External Dimensions (L×W×H) [mm] | |
|------------------------------------|-----------------|
| 0412 | 4.2×4.4×1.0 |
| 0402 | 4.2×4.4×1.8 |
| 0515 | 5.2×5.4×1.3 |
| 0518 | 5.2×5.4×1.6 |
| 0503 | 5.2×5.4×2.8 |
| 0615 | 6.6×7.0×1.3 |
| 0618 | 6.6×7.0×1.6 |
| 0602 | 6.6×7.0×1.8 |
| 0624 | 6.6×7.0×2.2 |
| 0603 | 6.6×7.0×2.8 |
| 0605 | 6.6×7.0×4.8 |
| 0804 | 8.2×8.8×3.8 |
| 1003 | 10.0×11.5×2.8 |
| 1004 | 10.0×11.0×3.8 |
| 1005 | 10.0×11.5×4.8 |
| 1204 | 12.8×13.45×4.0 |
| 1205 | 12.6×13.45×4.8 |
| 1206 | 12.6×13.45×5.8 |
| 1265 | 12.6×13.45×6.5 |
| 1707 | 17.15×17.15×6.7 |
| 2213 | 23.5×22.0×12.6 |

SHAPE AND DIMENSIONS



Remark: MWSA0412S ~ MWSA1265S Series



Remark: MWSA1707S ~ MWSA2213S Series

| Series | A | B | C | D | E | I Typ. | J Typ. | H Typ. |
|-----------|------------|------------|----------|---------|-------------|--------|--------|--------|
| MWSA0412S | 4.2±0.25 | 4.4±0.35 | 1.0±0.2 | 0.8±0.3 | 2.0±0.3 | 1.5 | 2.2 | 2.5 |
| MWSA0402S | 4.2±0.25 | 4.4±0.35 | 1.8±0.2 | 0.8±0.3 | 2.0±0.3 | 1.5 | 2.2 | 2.5 |
| MWSA0515S | 5.2±0.2 | 5.4±0.35 | 1.3±0.2 | 1.2±0.2 | 2.2±0.3 | 1.9 | 2.2 | 2.5 |
| MWSA0518S | 5.2±0.2 | 5.4±0.35 | 1.6±0.2 | 1.2±0.2 | 2.2±0.3 | 1.9 | 2.2 | 2.5 |
| MWSA0503S | 5.2±0.2 | 5.4±0.35 | 2.8±0.2 | 1.2±0.2 | 2.2±0.3 | 1.9 | 2.2 | 2.5 |
| MWSA0615S | 6.6±0.2 | 7.0±0.3 | 1.3±0.2 | 1.6±0.3 | 3.0±0.3 | 2.35 | 3.7 | 3.5 |
| MWSA0618S | 6.6±0.2 | 7.0±0.3 | 1.6±0.2 | 1.6±0.3 | 3.0±0.3 | 2.35 | 3.7 | 3.5 |
| MWSA0602S | 6.6±0.2 | 7.0±0.3 | 1.8±0.2 | 1.6±0.3 | 3.0±0.3 | 2.35 | 3.7 | 3.5 |
| MWSA0624S | 6.6±0.2 | 7.0±0.3 | 2.2±0.2 | 1.6±0.3 | 3.0±0.3 | 2.35 | 3.7 | 3.5 |
| MWSA0603S | 6.6±0.2 | 7.0±0.3 | 2.8±0.2 | 1.6±0.3 | 3.0±0.3 | 2.35 | 3.7 | 3.5 |
| MWSA0605S | 6.6±0.2 | 7.0±0.3 | 4.8±0.2 | 1.6±0.3 | 3.0±0.3 | 2.35 | 3.7 | 3.5 |
| MWSA0804S | 8.8±0.4 | 8.2±0.3 | 3.8±0.2 | 1.4±0.3 | 5.0±0.3 | 2.75 | 4.0 | 5.5 |
| MWSA1003S | 10.0±0.3 | 11.5 Max. | 2.8±0.2 | 2.0±0.5 | 3.0±0.3 | 4.1 | 5.4 | 4.1 |
| MWSA1004S | 10.0±0.3 | 11.0±0.5 | 3.8±0.2 | 2.0±0.5 | 3.0±0.5 | 4.1 | 5.4 | 4.1 |
| MWSA1005S | 10.0±0.3 | 11.5 Max. | 4.8±0.2 | 2.0±0.5 | 3.0±0.5 | 4.1 | 5.4 | 4.1 |
| MWSA1204S | 12.8±0.5 | 13.45±0.35 | 4.0 Max. | 2.0±0.5 | See Remarks | 3.25 | 8.0 | 5.5 |
| MWSA1205S | 12.6±0.3 | 13.45±0.35 | 4.8±0.2 | 2.0±0.5 | See Remarks | 3.25 | 8.0 | 5.5 |
| MWSA1206S | 12.6±0.3 | 13.45±0.35 | 5.8±0.2 | 2.0±0.5 | See Remarks | 3.25 | 8.0 | 5.5 |
| MWSA1265S | 12.6±0.3 | 13.45±0.35 | 6.5 Max. | 2.0±0.5 | 5.0±0.3 | 3.25 | 8.0 | 5.5 |
| MWSA1707S | 17.15 Max. | 17.15±0.35 | 6.7±0.3 | 2.5±0.5 | 12.0±0.3 | 3.50 | 11.2 | 12.8 |
| MWSA2213S | 22.0±0.3 | 23.5±0.5 | 12.6±0.4 | 5.0±0.4 | 19.0±0.3 | 5.75 | 12.5 | 19.6 |

Unit: mm

Remarks:

| Series | E(mm) | Dimensions |
|-----------|----------|---|
| MWSA1204S | 3.85±0.5 | R22/R47 |
| | 5.0±0.3 | R68/R82/1R0/1R5/2R2/3R3/4R7/6R8/100/150/220 |
| MWSA1205S | 3.85±0.5 | R22/R36/R50/R68/R82/1R0/1R5/2R2 |
| | 5.0±0.3 | 3R3/4R7/6R8/100/150/220/330/470 |
| MWSA1206S | 3.85±0.5 | R68/1R5/2R2 |
| | 5.0±0.3 | 3R3/4R7/5R6/6R8/8R2/100/120/150/180/220/270/330/470/680/101/121/151 |

SPECIFICATIONS MWSA0412S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0412S-R15MT | 0.15 \pm 20% | 9 | 12.0 | 15.0 | 6.80 | 7.50 |
| MWSA0412S-R22MT | 0.22 \pm 20% | 11 | 8.80 | 11.0 | 6.50 | 7.00 |
| MWSA0412S-R33MT | 0.33 \pm 20% | 19 | 6.70 | 8.40 | 5.70 | 6.50 |
| MWSA0412S-R47MT | 0.47 \pm 20% | 21 | 5.40 | 6.80 | 5.20 | 6.00 |
| MWSA0412S-R68MT | 0.68 \pm 20% | 36 | 4.80 | 6.00 | 4.20 | 4.70 |
| MWSA0412S-1R0MT | 1.0 \pm 20% | 47 | 4.40 | 5.50 | 3.80 | 4.50 |
| MWSA0412S-1R5MT | 1.5 \pm 20% | 75 | 3.20 | 4.00 | 2.70 | 3.25 |
| MWSA0412S-2R2MT | 2.2 \pm 20% | 83.5 | 2.40 | 3.00 | 2.20 | 2.75 |
| MWSA0412S-3R3MT | 3.3 \pm 20% | 160 | 2.38 | 2.70 | 1.77 | 2.00 |
| MWSA0412S-4R7MT | 4.7 \pm 20% | 195 | 1.80 | 2.20 | 1.45 | 1.80 |

MWSA0402S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|--------------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0402S-R10MT | 0.10 \pm 20% | 4 | 17.6 | 22.0 | 11.2 | 13.0 |
| MWSA0402S-R22MT | 0.22 \pm 20% | 6.6 | 10.0 | 12.5 | 8.20 | 9.50 |
| MWSA0402S-R33MT | 0.33 \pm 20% | 11 | 9.60 | 12.0 | 8.60 | 10.0 |
| MWSA0402S-R47MT | 0.47 \pm 20% | 14 | 7.60 | 9.50 | 6.65 | 7.50 |
| MWSA0402S-R56MT | 0.56 \pm 20% | 16 | 7.20 | 9.00 | 6.10 | 7.00 |
| MWSA0402S-R68MT | 0.68 \pm 20% | 18 | 6.40 | 8.00 | 6.15 | 7.00 |
| MWSA0402S-1R0MT | 1.0 \pm 20% | 27 | 5.60 | 7.00 | 5.40 | 6.00 |
| MWSA0402S-1R0MTB01 | 1.0 \pm 20% | 27 | 8.00 | 9.00 | 5.40 | 6.00 |
| MWSA0402S-1R2MT | 1.2 \pm 20% | 27 | 5.20 | 6.50 | 5.40 | 6.00 |
| MWSA0402S-1R5MT | 1.5 \pm 20% | 46 | 4.40 | 5.50 | 4.30 | 5.00 |
| MWSA0402S-2R2MT | 2.2 \pm 20% | 58 | 4.00 | 5.00 | 3.80 | 4.50 |
| MWSA0402S-3R3MT | 3.3 \pm 20% | 87 | 2.80 | 3.50 | 2.80 | 3.30 |
| MWSA0402S-4R7MT | 4.7 \pm 20% | 105 | 2.40 | 3.00 | 2.20 | 2.80 |
| MWSA0402S-5R6MT | 5.6 \pm 20% | 150 | 2.24 | 2.80 | 2.00 | 2.50 |
| MWSA0402S-6R8MT | 6.8 \pm 20% | 175 | 2.00 | 2.50 | 1.90 | 2.40 |
| MWSA0402S-100MT | 10 \pm 20% | 282 | 1.60 | 2.00 | 1.30 | 1.60 |
| MWSA0402S-220MT | 22 \pm 20% | 363 | 1.12 | 1.40 | 0.90 | 1.20 |

MWSA0515S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0515S-R47MT | 0.47 \pm 20% | 13 | 12.0 | 13.0 | 8.70 | 9.50 |
| MWSA0515S-R68MT | 0.68 \pm 20% | 15.5 | 9.50 | 11.2 | 8.10 | 9.00 |
| MWSA0515S-1R0MT | 1.0 \pm 20% | 23 | 8.00 | 9.50 | 5.80 | 6.50 |
| MWSA0515S-2R2MT | 2.2 \pm 20% | 52 | 4.80 | 5.80 | 4.00 | 5.00 |
| MWSA0515S-3R3MT | 3.3 \pm 20% | 72 | 4.00 | 4.50 | 3.00 | 3.30 |
| MWSA0515S-4R7MT | 4.7 \pm 20% | 106 | 3.70 | 4.20 | 2.60 | 3.00 |

SPECIFICATIONS MWSA0518S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0518S-R47MT | 0.47 \pm 20% | 9 | 9.60 | 12.0 | 9.50 | 10.5 |
| MWSA0518S-R56MT | 0.56 \pm 20% | 10 | 8.80 | 11.0 | 8.20 | 9.50 |
| MWSA0518S-R68MT | 0.68 \pm 20% | 13.8 | 9.30 | 10.5 | 7.70 | 8.70 |
| MWSA0518S-1R0MT | 1.0 \pm 20% | 17 | 7.20 | 9.00 | 7.20 | 8.00 |
| MWSA0518S-1R5MT | 1.5 \pm 20% | 26 | 6.40 | 8.00 | 6.60 | 7.50 |
| MWSA0518S-2R2MT | 2.2 \pm 20% | 35 | 4.80 | 6.00 | 4.20 | 5.00 |
| MWSA0518S-3R3MT | 3.3 \pm 20% | 58 | 3.84 | 4.80 | 3.80 | 4.50 |
| MWSA0518S-4R7MT | 4.7 \pm 20% | 85 | 3.20 | 4.00 | 3.00 | 3.50 |
| MWSA0518S-6R8MT | 6.8 \pm 20% | 120 | 2.72 | 3.40 | 2.40 | 2.80 |
| MWSA0518S-100MT | 10 \pm 20% | 155 | 2.00 | 2.50 | 2.20 | 2.50 |

MWSA0503S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0503S-R10MT | 0.10 \pm 20% | 3 | 24.0 | 30.0 | 23.0 | 25.0 |
| MWSA0503S-R20MT | 0.20 \pm 20% | 3.9 | 16.0 | 20.0 | 13.0 | 14.0 |
| MWSA0503S-R33MT | 0.33 \pm 20% | 5.5 | 14.4 | 18.0 | 13.1 | 14.0 |
| MWSA0503S-R47MT | 0.47 \pm 20% | 8.5 | 12.0 | 15.0 | 10.0 | 11.0 |
| MWSA0503S-R68MT | 0.68 \pm 20% | 12 | 9.20 | 11.5 | 8.20 | 9.00 |
| MWSA0503S-R82MT | 0.82 \pm 20% | 10.4 | 9.20 | 10.5 | 9.00 | 10.5 |
| MWSA0503S-1R0MT | 1.0 \pm 20% | 14 | 8.00 | 10.0 | 7.80 | 8.50 |
| MWSA0503S-1R2MT | 1.2 \pm 20% | 16 | 7.60 | 9.50 | 7.85 | 8.50 |
| MWSA0503S-1R5MT | 1.5 \pm 20% | 25 | 7.20 | 9.00 | 7.60 | 8.20 |
| MWSA0503S-2R2MT | 2.2 \pm 20% | 29 | 5.60 | 7.00 | 6.40 | 7.00 |
| MWSA0503S-3R3MT | 3.3 \pm 20% | 38 | 4.80 | 6.00 | 5.00 | 5.50 |
| MWSA0503S-4R7MT | 4.7 \pm 20% | 60 | 3.68 | 4.60 | 4.00 | 4.50 |
| MWSA0503S-6R8MT | 6.8 \pm 20% | 90 | 2.88 | 3.60 | 2.90 | 3.50 |
| MWSA0503S-100MT | 10 \pm 20% | 125 | 2.80 | 3.50 | 2.80 | 3.20 |
| MWSA0503S-150MT | 15 \pm 20% | 170 | 2.00 | 2.20 | 1.60 | 1.80 |

MWSA0615S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0615S-R47MT | 0.47 \pm 20% | 8.5 | 14.16 | 16.0 | 8.85 | 10.0 |
| MWSA0615S-R56MT | 0.56 \pm 20% | 11 | 12.38 | 14.0 | 7.96 | 9.00 |
| MWSA0615S-R68MT | 0.68 \pm 20% | 12 | 10.62 | 12.0 | 7.52 | 8.50 |
| MWSA0615S-R82MT | 0.82 \pm 20% | 17 | 8.85 | 10.0 | 7.08 | 8.00 |
| MWSA0615S-1R0MT | 1.0 \pm 20% | 21 | 7.96 | 9.00 | 5.30 | 6.00 |
| MWSA0615S-1R5MT | 1.5 \pm 20% | 40 | 7.00 | 8.00 | 4.40 | 5.00 |
| MWSA0615S-2R2MT | 2.2 \pm 20% | 54 | 6.19 | 7.00 | 3.36 | 3.80 |
| MWSA0615S-3R3MT | 3.3 \pm 20% | 63 | 4.87 | 5.50 | 3.10 | 3.50 |
| MWSA0615S-4R7MT | 4.7 \pm 20% | 85 | 4.42 | 5.00 | 2.83 | 3.20 |
| MWSA0615S-6R8MT | 6.8 \pm 20% | 135 | 3.54 | 4.00 | 2.21 | 2.50 |
| MWSA0615S-100MT | 10 \pm 20% | 175 | 2.65 | 3.00 | 1.77 | 2.00 |
| MWSA0615S-220MT | 22 \pm 20% | 510 | 2.20 | 2.50 | 1.32 | 1.40 |

SPECIFICATIONS MWSA0618S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | | Max. | Max. | Typ. | Max. |
| Units | μ H | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0618S-R10MT | 0.10 \pm 20% | 2.3 | 30.4 | 38.0 | 23.0 | 25.0 |
| MWSA0618S-R22MT | 0.22 \pm 20% | 3.5 | 19.2 | 24.0 | 20.0 | 22.0 |
| MWSA0618S-R47MT | 0.47 \pm 20% | 8.4 | 16.0 | 18.0 | 10.0 | 11.5 |
| MWSA0618S-R68MT | 0.68 \pm 20% | 12 | 13.2 | 16.5 | 8.40 | 9.50 |
| MWSA0618S-1R0MT | 1.0 \pm 20% | 16 | 9.60 | 12.0 | 7.60 | 8.50 |
| MWSA0618S-1R5MT | 1.5 \pm 20% | 26 | 7.36 | 9.20 | 7.10 | 8.00 |
| MWSA0618S-2R2MT | 2.2 \pm 20% | 35 | 6.40 | 8.00 | 6.20 | 7.00 |
| MWSA0618S-3R3MT | 3.3 \pm 20% | 50 | 4.80 | 6.00 | 3.80 | 4.50 |
| MWSA0618S-4R7MT | 4.7 \pm 20% | 62 | 4.00 | 5.00 | 3.50 | 4.00 |
| MWSA0618S-6R8MT | 6.8 \pm 20% | 110 | 3.60 | 4.50 | 2.40 | 3.00 |
| MWSA0618S-8R2MT | 8.2 \pm 20% | 135 | 2.90 | 3.60 | 2.10 | 2.40 |
| MWSA0618S-100MT | 10 \pm 20% | 155 | 3.20 | 4.00 | 1.95 | 2.30 |
| MWSA0618S-220MT | 22 \pm 20% | 350 | 1.84 | 2.30 | 1.40 | 1.80 |

MWSA0602S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|---------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | | Max. | Max. | Typ. | Max. |
| Units | μ H | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0602S-1R5MT | 1.5 \pm 20% | 18 | 10.0 | 12.0 | 7.00 | 8.00 |
| MWSA0602S-4R7MT | 4.7 \pm 20% | 60 | - | 5.50 | - | 4.30 |
| MWSA0602S-100MT | 10 \pm 20% | 145 | - | 4.00 | - | 2.80 |

MWSA0624S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | | Max. | Max. | Typ. | Max. |
| Units | μ H | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0624S-R22MT | 0.22 \pm 20% | 3 | 24.0 | 30.0 | 19.0 | 21.0 |
| MWSA0624S-R33MT | 0.33 \pm 20% | 4.1 | 19.6 | 24.5 | 16.0 | 18.0 |
| MWSA0624S-R47MT | 0.47 \pm 20% | 5.1 | 16.0 | 20.0 | 13.5 | 15.0 |
| MWSA0624S-R56MT | 0.56 \pm 20% | 6.5 | 13.6 | 17.0 | 11.5 | 13.0 |
| MWSA0624S-R68MT | 0.68 \pm 20% | 7 | 12.8 | 16.0 | 10.5 | 12.0 |
| MWSA0624S-1R0MT | 1.0 \pm 20% | 13.5 | 12.0 | 15.0 | 8.00 | 9.00 |
| MWSA0624S-1R5MT | 1.5 \pm 20% | 20 | 10.8 | 13.5 | 7.00 | 8.20 |
| MWSA0624S-2R2MT | 2.2 \pm 20% | 28 | 8.00 | 10.0 | 6.20 | 7.00 |
| MWSA0624S-3R3MT | 3.3 \pm 20% | 39 | 6.40 | 8.00 | 4.80 | 5.50 |
| MWSA0624S-4R7MT | 4.7 \pm 20% | 50 | 5.20 | 6.50 | 4.30 | 5.00 |
| MWSA0624S-6R8MT | 6.8 \pm 20% | 70 | 4.80 | 6.00 | 3.20 | 4.00 |
| MWSA0624S-100MT | 10 \pm 20% | 101 | 3.20 | 4.00 | 2.40 | 3.10 |
| MWSA0624S-150MT | 15 \pm 20% | 160 | 2.64 | 3.30 | 2.00 | 2.50 |
| MWSA0624S-220MT | 22 \pm 20% | 230 | 2.00 | 2.50 | 1.60 | 2.00 |

SPECIFICATIONS MWSA0603S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|--------------------|---------------|------------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | $\text{m}\Omega$ | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0603S-R10MT | 0.10±20% | 1.7 | 53.0 | 60.0 | 28.5 | 32.5 |
| MWSA0603S-R12MT | 0.12±20% | 0.77±7% | 30.0 | 40.0 | 32.0 | 38.0 |
| MWSA0603S-R22MT | 0.22±20% | 3 | 27.2 | 34.0 | 21.0 | 24.0 |
| MWSA0603S-R24MT | 0.24±20% | 3.1 | 22.4 | 28.0 | 18.4 | 23.0 |
| MWSA0603S-R24MTY02 | 0.24±20% | 1.19±7% | 30.0 | 35.0 | 26.0 | 30.0 |
| MWSA0603S-R33MT | 0.33±20% | 3.5 | 20.0 | 25.0 | 19.0 | 21.0 |
| MWSA0603S-R47MT | 0.47±20% | 4.1 | 16.0 | 20.0 | 16.5 | 18.0 |
| MWSA0603S-R56MT | 0.56±20% | 4.5 | 14.4 | 18.0 | 15.0 | 16.5 |
| MWSA0603S-R68MT | 0.68±20% | 5.3 | 13.6 | 17.0 | 14.5 | 16.0 |
| MWSA0603S-R82MT | 0.82±20% | 6.0 | 12.8 | 16.0 | 12.5 | 14.0 |
| MWSA0603S-1R0MT | 1.0±20% | 7.4 | 12.0 | 15.0 | 10.5 | 12.0 |
| MWSA0603S-1R5MT | 1.5±20% | 12.1 | 9.60 | 12.0 | 10.5 | 12.0 |
| MWSA0603S-1R5MTB01 | 1.5±20% | 11 | - | 14.0 | - | 10.5 |
| MWSA0603S-1R8MT | 1.8±20% | 12.6 | 9.40 | 11.8 | 8.20 | 9.30 |
| MWSA0603S-2R2MT | 2.2±20% | 15 | 8.00 | 10.0 | 8.50 | 9.50 |
| MWSA0603S-3R3MT | 3.3±20% | 22 | 7.60 | 9.50 | 7.50 | 8.50 |
| MWSA0603S-4R7MT | 4.7±20% | 33 | 7.20 | 9.00 | 5.00 | 6.00 |
| MWSA0603S-5R6MT | 5.6±20% | 42 | 5.20 | 6.50 | 4.80 | 5.50 |
| MWSA0603S-6R8MT | 6.8±20% | 48 | 4.80 | 6.00 | 4.20 | 5.00 |
| MWSA0603S-8R2MT | 8.2±20% | 60 | 4.40 | 5.50 | 4.20 | 5.00 |
| MWSA0603S-100MT | 10±20% | 68 | 4.40 | 5.50 | 3.80 | 4.50 |
| MWSA0603S-150MT | 15±20% | 113 | 3.20 | 4.00 | 2.30 | 3.00 |
| MWSA0603S-220MT | 22±20% | 170 | 2.40 | 3.00 | 2.00 | 2.50 |
| MWSA0603S-330MT | 33±20% | 270 | 2.00 | 2.50 | 1.60 | 2.00 |
| MWSA0603S-330MTB01 | 33±20% | 210 | 2.00 | 2.50 | 1.70 | 2.20 |
| MWSA0603S-470MT | 47±20% | 385 | 1.60 | 2.00 | 1.20 | 1.50 |

MWSA0605S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|---------------|------------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | $\text{m}\Omega$ | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0605S-R47MT | 0.47±20% | 3.9 | 16.8 | 21.0 | 17.0 | 20.0 |
| MWSA0605S-R68MT | 0.68±20% | 4.5 | 14.4 | 18.0 | 14.5 | 16.5 |
| MWSA0605S-1R0MT | 1.0±20% | 6.6 | 12.8 | 16.0 | 10.0 | 12.0 |
| MWSA0605S-1R5MT | 1.5±20% | 10 | 10.4 | 13.0 | 8.20 | 9.50 |
| MWSA0605S-2R2MT | 2.2±20% | 12.5 | 8.80 | 11.0 | 8.00 | 9.00 |
| MWSA0605S-3R3MT | 3.3±20% | 22 | 8.00 | 10.0 | 7.60 | 8.50 |
| MWSA0605S-4R7MT | 4.7±20% | 29 | 6.40 | 8.00 | 5.00 | 6.00 |
| MWSA0605S-6R8MT | 6.8±20% | 41 | 5.04 | 6.30 | 4.00 | 5.80 |
| MWSA0605S-8R2MT | 8.2±20% | 48 | 4.40 | 5.50 | 4.80 | 5.50 |
| MWSA0605S-100MT | 10±20% | 60 | 4.24 | 5.30 | 3.80 | 4.50 |
| MWSA0605S-150MT | 15±20% | 90 | 3.20 | 4.00 | 2.60 | 3.10 |
| MWSA0605S-220MT | 22±20% | 140 | 2.80 | 3.50 | 2.00 | 2.60 |
| MWSA0605S-330MT | 33±20% | 190 | 2.40 | 3.00 | 1.80 | 2.30 |
| MWSA0605S-470MT | 47±20% | 230 | 2.08 | 2.60 | 1.50 | 2.00 |

SPECIFICATIONS MWSA0804S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA0804S-R10MT | 0.10 \pm 20% | 1.6 | 68.0 | 72.0 | 35.0 | 40.0 |
| MWSA0804S-R15MT | 0.15 \pm 20% | 1.65 | 65.0 | 70.0 | 33.0 | 39.0 |
| MWSA0804S-R22MT | 0.22 \pm 20% | 1.8 | 55.0 | 60.0 | 30.0 | 36.0 |
| MWSA0804S-R33MT | 0.33 \pm 20% | 2.4 | 40.0 | 45.0 | 25.0 | 30.0 |
| MWSA0804S-R47MT | 0.47 \pm 20% | 2.8 | 36.0 | 42.0 | 25.0 | 28.0 |
| MWSA0804S-R56MT | 0.56 \pm 20% | 3.2 | 23.0 | 26.0 | 22.0 | 24.0 |
| MWSA0804S-R68MT | 0.68 \pm 20% | 3.8 | 22.0 | 24.0 | 21.0 | 23.0 |
| MWSA0804S-R82MT | 0.82 \pm 20% | 4.4 | 19.0 | 21.0 | 19.0 | 21.0 |
| MWSA0804S-1R0MT | 1.0 \pm 20% | 4.62 | 17.0 | 19.0 | 17.0 | 19.0 |
| MWSA0804S-1R5MT | 1.5 \pm 20% | 7.6 | 15.0 | 17.0 | 15.0 | 17.0 |
| MWSA0804S-1R8MT | 1.8 \pm 20% | 11 | 13.5 | 15.0 | 12.5 | 15.0 |
| MWSA0804S-2R2MT | 2.2 \pm 20% | 11.4 | 12.0 | 14.0 | 12.0 | 14.0 |
| MWSA0804S-3R3MT | 3.3 \pm 20% | 15 | 11.0 | 12.5 | 10.0 | 12.0 |
| MWSA0804S-4R7MT | 4.7 \pm 20% | 26.5 | 10.5 | 11.5 | 8.50 | 9.50 |
| MWSA0804S-5R6MT | 5.6 \pm 20% | 30 | 10.0 | 11.0 | 8.00 | 9.00 |
| MWSA0804S-6R8MT | 6.8 \pm 20% | 36.8 | 8.00 | 9.00 | 7.00 | 8.00 |
| MWSA0804S-8R2MT | 8.2 \pm 20% | 46 | 7.70 | 8.70 | 6.00 | 7.00 |
| MWSA0804S-100MT | 10 \pm 20% | 59 | 7.00 | 8.00 | 5.50 | 6.50 |
| MWSA0804S-150MT | 15 \pm 20% | 71 | 4.90 | 5.50 | 4.80 | 5.40 |
| MWSA0804S-220MT | 22 \pm 20% | 113 | 4.50 | 5.00 | 4.20 | 4.80 |
| MWSA0804S-330MT | 33 \pm 20% | 156 | 3.30 | 3.50 | 3.00 | 3.50 |
| MWSA0804S-470MT | 47 \pm 20% | 225 | 2.90 | 3.10 | 2.50 | 2.90 |

MWSA1003S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA1003S-R22MT | 0.22 \pm 20% | 1.2 | 44.24 | 50.0 | 29.2 | 33.0 |
| MWSA1003S-R33MT | 0.33 \pm 20% | 1.6 | 28.3 | 32.0 | 20.35 | 23.0 |
| MWSA1003S-R36MT | 0.36 \pm 20% | 1.6 | 24.8 | 28.0 | 20.35 | 23.0 |
| MWSA1003S-R47MT | 0.47 \pm 20% | 2.5 | 23.0 | 26.0 | 19.47 | 22.0 |
| MWSA1003S-R82MT | 0.82 \pm 20% | 3.7 | 20.35 | 23.0 | 15.93 | 18.0 |
| MWSA1003S-1R0MT | 1.0 \pm 20% | 6 | 18.58 | 21.0 | 13.27 | 15.0 |
| MWSA1003S-1R5MT | 1.5 \pm 20% | 7.5 | 17.69 | 20.0 | 11.5 | 13.0 |
| MWSA1003S-2R2MT | 2.2 \pm 20% | 9 | 12.38 | 14.0 | 9.73 | 11.0 |
| MWSA1003S-3R3MT | 3.3 \pm 20% | 16 | 10.61 | 12.0 | 7.96 | 9.00 |
| MWSA1003S-4R7MT | 4.7 \pm 20% | 22.5 | 8.84 | 10.0 | 6.19 | 7.00 |
| MWSA1003S-8R2MT | 8.2 \pm 20% | 45 | 6.20 | 7.00 | 4.42 | 5.00 |
| MWSA1003S-100MT | 10 \pm 20% | 55 | 5.75 | 6.50 | 3.98 | 4.50 |
| MWSA1003S-150MT | 15 \pm 20% | 65 | 5.30 | 6.00 | 3.50 | 4.00 |
| MWSA1003S-220MT | 22 \pm 20% | 99 | 4.40 | 5.00 | 2.65 | 3.00 |
| MWSA1003S-330MT | 33 \pm 20% | 160 | 3.53 | 4.00 | 2.30 | 2.60 |

MWSA1004S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA1004S-R13MT | 0.13 \pm 20% | 0.52 \pm 5% | 63.0 | 92.0 | 63.0 | 72.0 |
| MWSA1004S-R15MT | 0.15 \pm 20% | 0.65 | 60.0 | 75.0 | 40.0 | 45.0 |
| MWSA1004S-R22MT | 0.22 \pm 20% | 1 | 48.0 | 60.0 | 30.0 | 35.0 |

SPECIFICATIONS MWSA1004S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|---------------|------------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | $\text{m}\Omega$ | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA1004S-R30MT | 0.30±20% | 1.1 | 36.0 | 45.0 | 30.0 | 35.0 |
| MWSA1004S-R33MT | 0.33±20% | 1.15 | 36.0 | 45.0 | 28.0 | 32.0 |
| MWSA1004S-R36MT | 0.36±20% | 1.2 | 36.0 | 45.0 | 25.0 | 30.0 |
| MWSA1004S-R45MT | 0.45±20% | 1.5 | 34.0 | 43.0 | 25.0 | 30.0 |
| MWSA1004S-R47MT | 0.47±20% | 1.7 | 32.0 | 40.0 | 25.0 | 30.0 |
| MWSA1004S-R56MT | 0.56±20% | 1.8 | 26.4 | 33.0 | 20.0 | 25.0 |
| MWSA1004S-R68MT | 0.68±20% | 2.4 | 24.0 | 30.0 | 19.0 | 23.0 |
| MWSA1004S-R80MT | 0.80±20% | 2.7 | 23.2 | 29.0 | 19.0 | 23.0 |
| MWSA1004S-1R0MT | 1.0±20% | 3.3 | 22.4 | 28.0 | 16.0 | 19.0 |
| MWSA1004S-1R5MT | 1.5±20% | 4.2 | 19.2 | 24.0 | 14.0 | 16.0 |
| MWSA1004S-1R8MT | 1.8±20% | 4.5 | 16.0 | 20.0 | 14.0 | 16.0 |
| MWSA1004S-2R2MT | 2.2±20% | 7 | 13.2 | 16.5 | 10.0 | 12.0 |
| MWSA1004S-3R3MT | 3.3±20% | 11.8 | 12.8 | 16.0 | 9.50 | 11.0 |
| MWSA1004S-4R7MT | 4.7±20% | 20 | 10.4 | 13.0 | 7.50 | 9.00 |
| MWSA1004S-6R8MT | 6.8±20% | 25 | 9.60 | 12.0 | 7.00 | 8.50 |
| MWSA1004S-8R2MT | 8.2±20% | 27 | 7.20 | 9.00 | 6.80 | 8.00 |
| MWSA1004S-100MT | 10±20% | 30 | 6.80 | 8.50 | 6.90 | 7.80 |
| MWSA1004S-150MT | 15±20% | 45 | 5.60 | 7.00 | 5.60 | 6.50 |
| MWSA1004S-220MT | 22±20% | 66 | 4.40 | 5.50 | 4.20 | 5.00 |
| MWSA1004S-330MT | 33±20% | 92 | 3.84 | 4.80 | 3.80 | 4.40 |
| MWSA1004S-470MT | 47±20% | 145 | 3.10 | 3.50 | 2.80 | 3.30 |
| MWSA1004S-680MT | 68±20% | 195 | 2.40 | 3.00 | 2.00 | 2.50 |
| MWSA1004S-820MT | 82±20% | 285 | 2.30 | 2.80 | 2.10 | 2.30 |
| MWSA1004S-101MT | 100±20% | 340 | 2.10 | 2.30 | 1.80 | 2.00 |

MWSA1005S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|---------------|------------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | $\text{m}\Omega$ | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA1005S-R22MT | 0.22±20% | 0.8 | 57.5 | 65.0 | 32.5 | 37.0 |
| MWSA1005S-R68MT | 0.68±20% | 1.95 | 34.0 | 37.0 | 21.0 | 23.0 |
| MWSA1005S-1R0MT | 1.0±20% | 3 | 28.0 | 30.0 | 20.3 | 23.0 |
| MWSA1005S-1R5MT | 1.5±20% | 3.8 | 22.0 | 25.0 | 18.5 | 21.0 |
| MWSA1005S-2R2MT | 2.2±20% | 6 | 16.8 | 19.0 | 13.2 | 15.0 |
| MWSA1005S-3R3MT | 3.3±20% | 10 | 14.0 | 16.0 | 11.5 | 13.0 |
| MWSA1005S-4R7MT | 4.7±20% | 14 | 13.2 | 15.0 | 9.70 | 11.0 |
| MWSA1005S-5R6MT | 5.6±20% | 17 | 12.3 | 14.0 | 8.50 | 9.50 |
| MWSA1005S-6R8MT | 6.8±20% | 18.5 | 12.3 | 14.0 | 8.00 | 9.00 |
| MWSA1005S-100MT | 10±20% | 28 | 8.80 | 10.0 | 7.00 | 8.00 |
| MWSA1005S-150MT | 15±20% | 42 | 6.50 | 7.50 | 5.70 | 6.50 |
| MWSA1005S-220MT | 22±20% | 50 | 5.30 | 6.00 | 5.00 | 5.50 |
| MWSA1005S-330MT | 33±20% | 86 | 4.60 | 5.20 | 4.20 | 4.80 |
| MWSA1005S-470MT | 47±20% | 127 | 4.00 | 4.50 | 3.20 | 3.70 |
| MWSA1005S-680MT | 68±20% | 185 | 2.80 | 3.20 | 2.40 | 2.70 |
| MWSA1005S-820MT | 82±20% | 280 | 3.00 | 3.50 | 1.70 | 2.00 |
| MWSA1005S-101MT | 100±20% | 290 | 2.50 | 2.80 | 1.80 | 2.10 |

SPECIFICATIONS MWSA1204S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μ H | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA1204S-R22MT | 0.22 \pm 20% | 0.9 | 40.0 | 50.0 | 38.0 | 42.0 |
| MWSA1204S-R47MT | 0.47 \pm 20% | 2 | 38.4 | 48.0 | 29.0 | 33.0 |
| MWSA1204S-R68MT | 0.68 \pm 20% | 3.5 | 37.6 | 47.0 | 24.0 | 28.0 |
| MWSA1204S-R82MT | 0.82 \pm 20% | 4.5 | 32.0 | 40.0 | 24.0 | 28.0 |
| MWSA1204S-1R0MT | 1.0 \pm 20% | 7.5 | 28.0 | 35.0 | 20.0 | 24.0 |
| MWSA1204S-1R5MT | 1.5 \pm 20% | 9.5 | 24.4 | 30.5 | 17.0 | 20.0 |
| MWSA1204S-2R2MT | 2.2 \pm 20% | 11.5 | 20.8 | 26.0 | 15.0 | 18.0 |
| MWSA1204S-3R3MT | 3.3 \pm 20% | 13 | 16.8 | 21.0 | 13.0 | 15.0 |
| MWSA1204S-4R7MT | 4.7 \pm 20% | 14.5 | 14.4 | 18.0 | 11.0 | 13.0 |
| MWSA1204S-6R8MT | 6.8 \pm 20% | 20 | 11.2 | 14.0 | 8.00 | 9.00 |
| MWSA1204S-100MT | 10 \pm 20% | 25 | 8.00 | 10.0 | 7.00 | 8.00 |
| MWSA1204S-150MT | 15 \pm 20% | 39 | 6.00 | 7.50 | 5.80 | 6.50 |
| MWSA1204S-220MT | 22 \pm 20% | 51 | 4.80 | 6.00 | 3.80 | 4.50 |

MWSA1205S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|--------------------|----------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μ H | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA1205S-R22MT | 0.22 \pm 20% | 0.7 | 60.0 | 75.0 | 45.0 | 50.0 |
| MWSA1205S-R36MT | 0.36 \pm 20% | 0.85 | 40.0 | 50.0 | 37.0 | 42.0 |
| MWSA1205S-R50MT | 0.50 \pm 20% | 1.15 | 38.4 | 48.0 | 33.0 | 38.0 |
| MWSA1205S-R68MT | 0.68 \pm 20% | 1.55 | 36.8 | 46.0 | 29.0 | 33.0 |
| MWSA1205S-R82MT | 0.82 \pm 20% | 1.67 | 31.2 | 39.0 | 26.0 | 30.0 |
| MWSA1205S-1R0MT | 1.0 \pm 20% | 2.2 | 28.0 | 35.0 | 22.0 | 26.0 |
| MWSA1205S-1R5MT | 1.5 \pm 20% | 3.2 | 26.4 | 33.0 | 19.0 | 23.0 |
| MWSA1205S-2R2MT | 2.2 \pm 20% | 5 | 19.2 | 24.0 | 13.0 | 15.0 |
| MWSA1205S-3R3MT | 3.3 \pm 20% | 7 | 17.6 | 22.0 | 12.0 | 14.0 |
| MWSA1205S-4R7MT | 4.7 \pm 20% | 9 | 16.0 | 20.0 | 11.0 | 13.0 |
| MWSA1205S-6R8MT | 6.8 \pm 20% | 18 | 12.8 | 16.0 | 10.0 | 12.0 |
| MWSA1205S-100MT | 10 \pm 20% | 22 | 9.60 | 12.0 | 8.00 | 9.00 |
| MWSA1205S-150MT | 15 \pm 20% | 30 | 8.00 | 10.0 | 7.00 | 8.00 |
| MWSA1205S-220MT | 22 \pm 20% | 58 | 5.20 | 6.50 | 3.80 | 4.50 |
| MWSA1205S-330MT | 33 \pm 20% | 84 | 4.80 | 6.00 | 2.80 | 3.50 |
| MWSA1205S-330MTY01 | 33 \pm 20% | 63 | 4.80 | 6.00 | 2.80 | 3.50 |
| MWSA1205S-470MT | 47 \pm 20% | 130 | 4.00 | 5.00 | 2.60 | 3.00 |

MWSA1206S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|---------------|---------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μ H | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA1206S-1R5MT | 1.5 \pm 20% | 2.9 | 27.0 | 30.0 | 23.0 | 27.0 |
| MWSA1206S-2R2MT | 2.2 \pm 20% | 4.2 | 24.0 | 28.0 | 18.0 | 22.0 |
| MWSA1206S-3R3MT | 3.3 \pm 20% | 6.8 | 21.0 | 25.0 | 14.0 | 17.0 |
| MWSA1206S-4R7MT | 4.7 \pm 20% | 9 | 19.2 | 24.0 | 12.0 | 15.0 |
| MWSA1206S-5R6MT | 5.6 \pm 20% | 11 | 18.0 | 22.5 | 11.0 | 13.0 |
| MWSA1206S-6R8MT | 6.8 \pm 20% | 13.5 | 15.2 | 19.0 | 10.0 | 12.0 |
| MWSA1206S-8R2MT | 8.2 \pm 20% | 16 | 10.8 | 13.5 | 9.00 | 11.0 |

SPECIFICATIONS MWSA1206S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|---------------|---------------|--------------------|------|---------------------|------|
| | @100KHz, 1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA1206S-100MT | 10 \pm 20% | 20.7 | 11.1 | 12.5 | 8.50 | 10.0 |
| MWSA1206S-120MT | 12 \pm 20% | 23 | 8.00 | 10.0 | 7.80 | 9.00 |
| MWSA1206S-150MT | 15 \pm 20% | 29 | 7.20 | 9.00 | 7.50 | 8.50 |
| MWSA1206S-180MT | 18 \pm 20% | 35 | 6.40 | 8.00 | 6.50 | 7.50 |
| MWSA1206S-220MT | 22 \pm 20% | 39.5 | 6.00 | 7.50 | 6.00 | 7.00 |
| MWSA1206S-270MT | 27 \pm 20% | 56 | 5.20 | 6.50 | 5.00 | 6.00 |
| MWSA1206S-330MT | 33 \pm 20% | 75 | 4.80 | 6.00 | 4.80 | 5.50 |
| MWSA1206S-470MT | 47 \pm 20% | 90 | 4.40 | 5.50 | 4.20 | 5.00 |
| MWSA1206S-680MT | 68 \pm 20% | 140 | 3.60 | 4.50 | 3.20 | 4.00 |
| MWSA1206S-101MT | 100 \pm 20% | 200 | 2.80 | 3.50 | 2.50 | 3.00 |
| MWSA1206S-121MT | 120 \pm 20% | 235 | 2.56 | 3.20 | 1.70 | 2.00 |
| MWSA1206S-151MT | 150 \pm 20% | 350 | 2.16 | 2.70 | 1.20 | 1.50 |

MWSA1265S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|--------------------|---------------|---------------|--------------------|------|---------------------|------|
| | @100KHz, 1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA1265S-4R7MT | 4.7 \pm 20% | 8.5 | - | 24.0 | - | 16.0 |
| MWSA1265S-5R6MT | 5.6 \pm 20% | 10.5 | - | 22.5 | - | 14.0 |
| MWSA1265S-6R8MT | 6.8 \pm 20% | 12 | - | 19.0 | - | 13.0 |
| MWSA1265S-8R2MT | 8.2 \pm 20% | 14 | - | 16.0 | - | 12.0 |
| MWSA1265S-100MT | 10 \pm 20% | 16.5 | - | 15.0 | - | 11.0 |
| MWSA1265S-150MT | 15 \pm 20% | 26 | - | 11.0 | - | 9.50 |
| MWSA1265S-220MT | 22 \pm 20% | 36 | - | 9.00 | - | 8.00 |
| MWSA1265S-330MT | 33 \pm 20% | 65 | - | 8.00 | - | 6.50 |
| MWSA1265S-470MT | 47 \pm 20% | 70 | - | 6.80 | - | 5.50 |
| MWSA1265S-470MTB01 | 47 \pm 20% | 67 | - | 7.60 | - | 8.00 |
| MWSA1265S-680MT | 68 \pm 20% | 120 | - | 5.20 | - | 4.80 |
| MWSA1265S-820MT | 82 \pm 20% | 135 | - | 4.50 | - | 4.00 |
| MWSA1265S-101MT | 100 \pm 20% | 170 | - | 4.00 | - | 3.50 |

MWSA1707S Series

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|---------------|---------------|--------------------|------|---------------------|------|
| | @100KHz, 1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | m Ω | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA1707S-1R5MT | 1.5 \pm 20% | 2.1 | 35.0 | 40.0 | 29.0 | 33.0 |
| MWSA1707S-2R2MT | 2.2 \pm 20% | 2.5 | 30.0 | 34.0 | 25.5 | 29.0 |
| MWSA1707S-3R3MT | 3.3 \pm 20% | 3.95 | 26.0 | 30.0 | 21.0 | 24.0 |
| MWSA1707S-4R7MT | 4.7 \pm 20% | 4.75 | 21.0 | 24.0 | 18.5 | 21.0 |
| MWSA1707S-6R8MT | 6.8 \pm 20% | 7.5 | 19.5 | 22.0 | 15.0 | 17.0 |
| MWSA1707S-8R2MT | 8.2 \pm 20% | 8.7 | 17.5 | 20.0 | 11.5 | 13.0 |
| MWSA1707S-100MT | 10 \pm 20% | 9.9 | 16.5 | 19.0 | 10.5 | 12.0 |
| MWSA1707S-150MT | 15 \pm 20% | 17 | 12.5 | 14.5 | 9.50 | 11.0 |
| MWSA1707S-220MT | 22 \pm 20% | 23 | 10.0 | 11.5 | 7.50 | 8.50 |
| MWSA1707S-330MT | 33 \pm 20% | 37 | 8.50 | 10.0 | 7.00 | 8.00 |
| MWSA1707S-470MT | 47 \pm 20% | 47 | 6.50 | 7.50 | 5.30 | 6.00 |
| MWSA1707S-560MT | 56 \pm 20% | 66 | 6.30 | 7.20 | 5.10 | 5.80 |
| MWSA1707S-680MT | 68 \pm 20% | 85 | 5.50 | 6.50 | 4.50 | 5.20 |
| MWSA1707S-820MT | 82 \pm 20% | 110 | 5.30 | 6.00 | 4.00 | 4.50 |
| MWSA1707S-101MT | 100 \pm 20% | 130 | 4.40 | 5.00 | 3.20 | 3.70 |

MWSA2213 Series

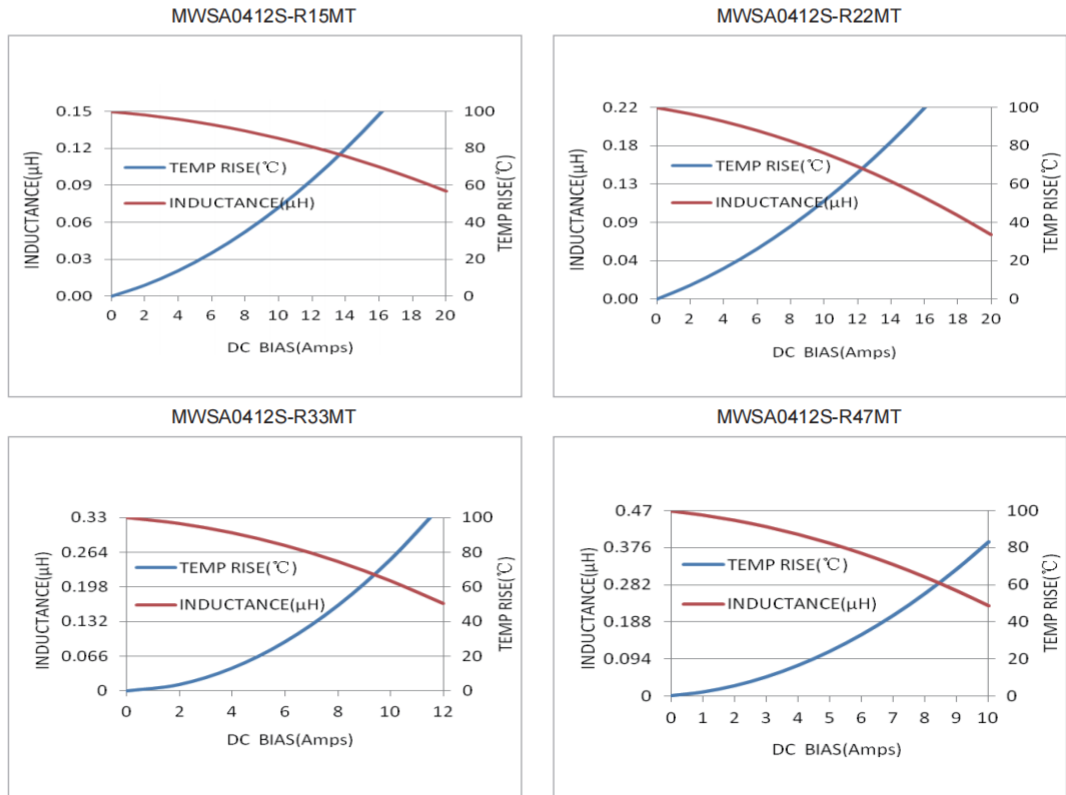
SPECIFICATIONS

| Part Number | Inductance | DC Resistance | Saturation Current | | Heat Rating Current | |
|-----------------|---------------|------------------|--------------------|------|---------------------|------|
| | @100KHz,1V | Max. | Max. | Typ. | Max. | Typ. |
| Units | μH | $\text{m}\Omega$ | A | | A | |
| Symbol | L | DCR | Isat | | Irms | |
| MWSA2213S-1R0MT | 1.0 \pm 20% | 0.95 | 54.0 | 60.0 | 65.0 | 70.0 |
| MWSA2213S-1R5MT | 1.5 \pm 20% | 1.15 | 48.0 | 52.0 | 57.0 | 62.0 |
| MWSA2213S-2R2MT | 2.2 \pm 20% | 1.25 | 43.0 | 48.0 | 52.0 | 58.0 |
| MWSA2213S-3R3MT | 3.3 \pm 20% | 1.75 | 37.0 | 41.0 | 47.0 | 49.0 |
| MWSA2213S-4R7MT | 4.7 \pm 20% | 2.2 | 34.0 | 38.0 | 44.0 | 47.0 |
| MWSA2213S-6R8MT | 6.8 \pm 20% | 3.1 | 32.0 | 36.0 | 36.0 | 40.0 |
| MWSA2213S-100MT | 10 \pm 20% | 4.15 | 20.0 | 28.0 | 30.0 | 33.0 |
| MWSA2213S-150MT | 15 \pm 20% | 6.12 | 18.0 | 23.0 | 23.0 | 26.0 |
| MWSA2213S-220MT | 22 \pm 20% | 11 | 14.0 | 15.0 | 18.0 | 22.0 |
| MWSA2213S-330MT | 33 \pm 20% | 15.4 | 10.5 | 12.0 | 16.0 | 19.0 |
| MWSA2213S-470MT | 47 \pm 20% | 20.8 | 10.0 | 12.0 | 14.0 | 17.0 |
| MWSA2213S-680MT | 68 \pm 20% | 29.5 | 9.00 | 12.0 | 12.0 | 14.0 |
| MWSA2213S-820MT | 82 \pm 20% | 34.2 | 7.70 | 9.00 | 10.0 | 12.0 |
| MWSA2213S-101MT | 100 \pm 20% | 40 | 7.50 | 9.00 | 9.50 | 11.0 |

- ※1: All test data is referenced to 20°C ambient;
- ※2: Rated current: Isat or Irms, whichever is smaller;
- ※3: Isat(Typ): DC current at which the inductance drops approximate 30% from its value without current;
- ※4: Isat(Max): DC current at which the inductance drops approximate 30% from its value without current;
- ※5: Irms(Typ): DC current that causes the temperature rise ($\Delta T=40^\circ\text{C}$) from 20°C ambient.
- ※6: Irms(Max): DC current that causes the temperature rise ($\Delta T=20^\circ\text{C}$) from 20°C ambient.
- ※7: Absolute maximum voltage 30VDC

TYPICAL ELECTRICAL CHARACTERISTICS

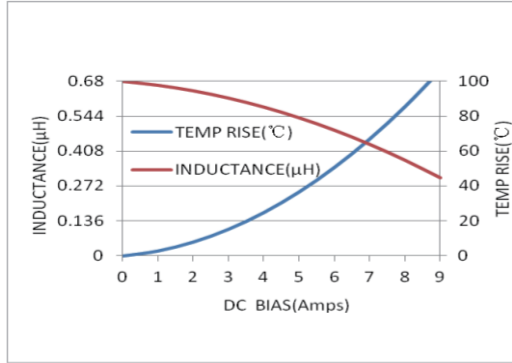
MWSA0412S Series



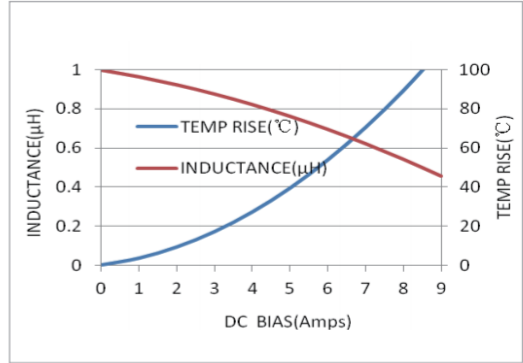
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA0412S Series

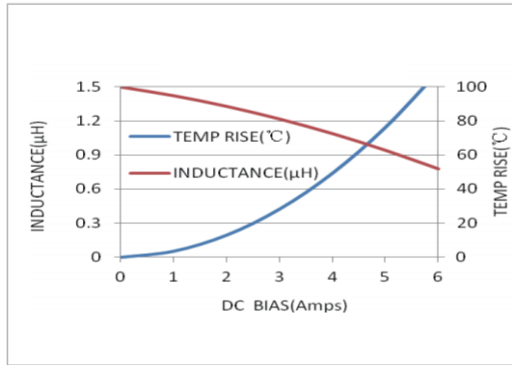
MWSA0412S-R68MT



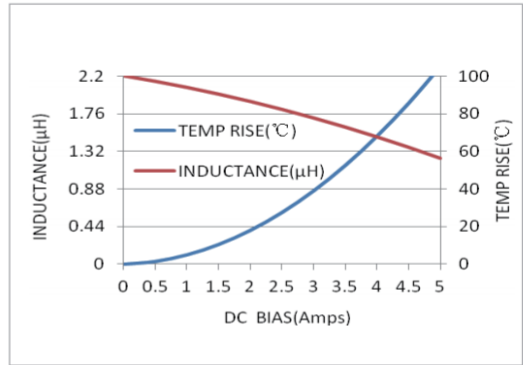
MWSA0412S-1R0MT



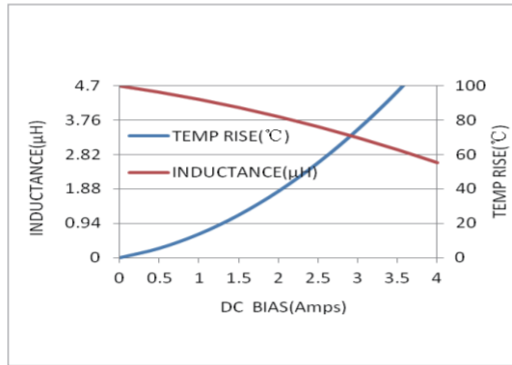
MWSA0412S-1R5MT



MWSA0412S-2R2MT

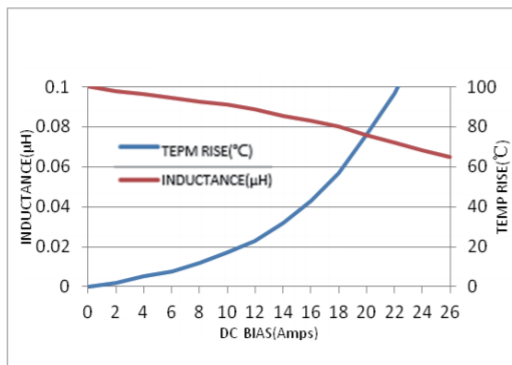


MWSA0412S-4R7MT

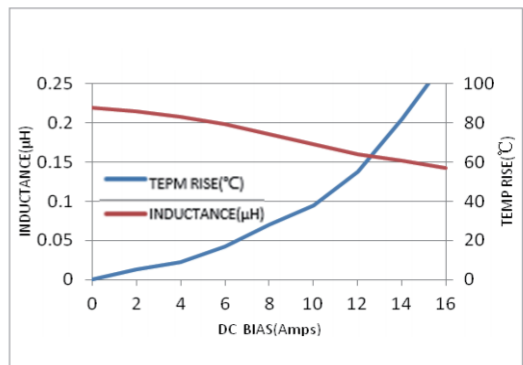


MWSA0402S Series

MWSA0402S-R10MT



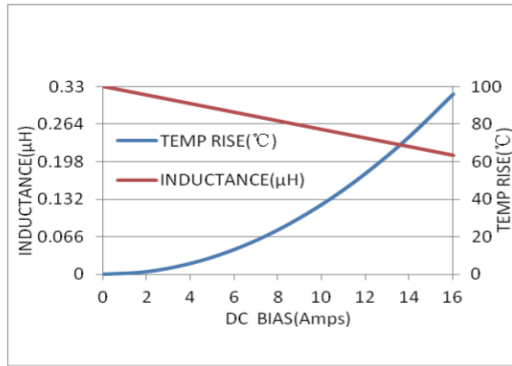
MWSA0402S-R22MT



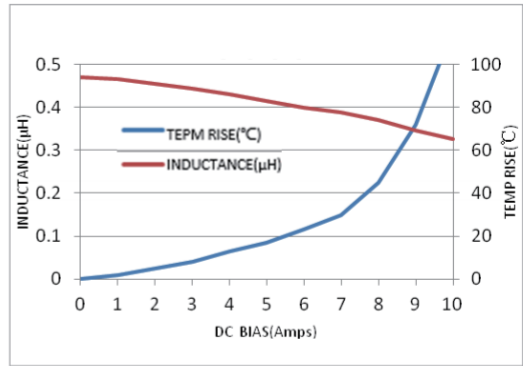
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA0402S Series

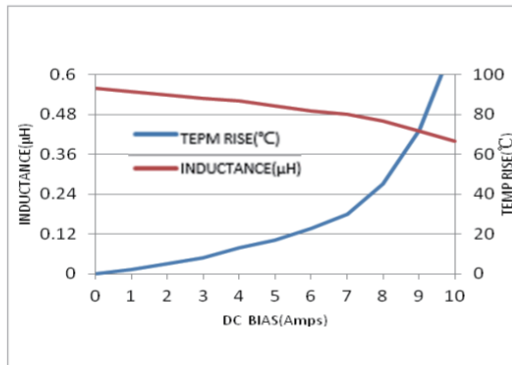
MWSA0402S-R33MT



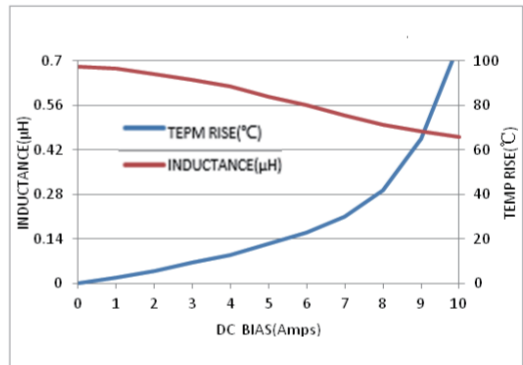
MWSA0402S-R47MT



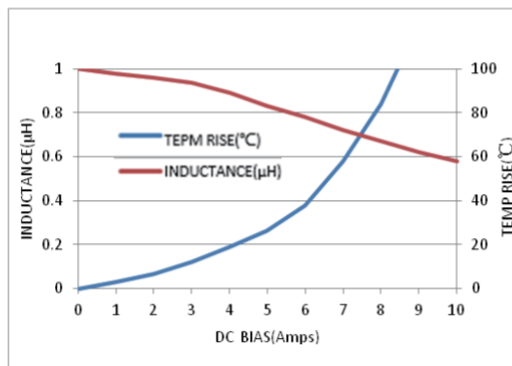
MWSA0402S-R56MT



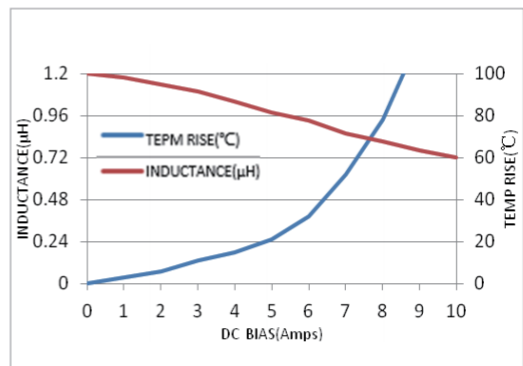
MWSA0402S-R68MT



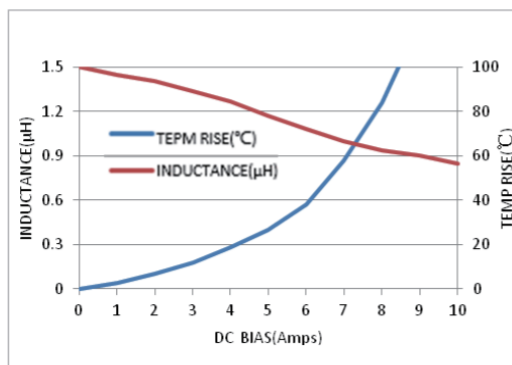
MWSA0402S-1R0MT



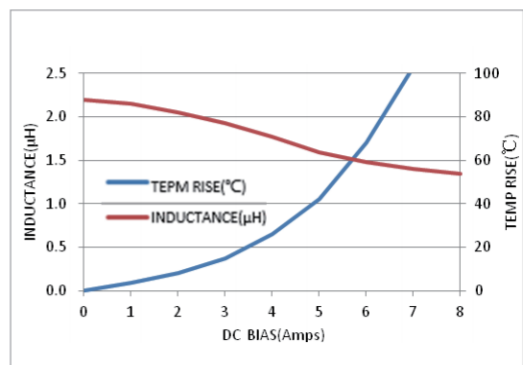
MWSA0402S-1R2MT



MWSA0402S-1R5MT



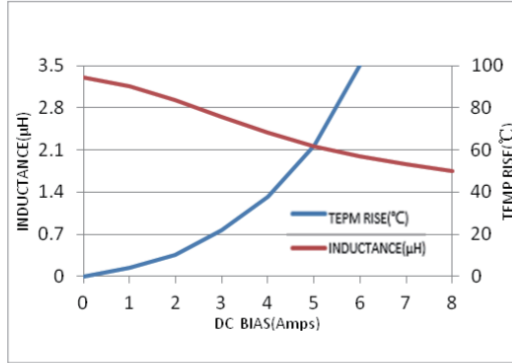
MWSA0402S-2R2MT



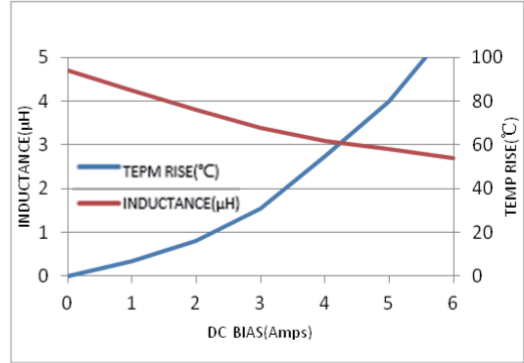
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA0402S Series

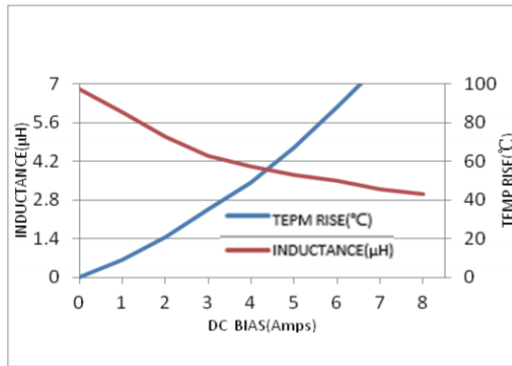
MWSA0402S-3R3MT



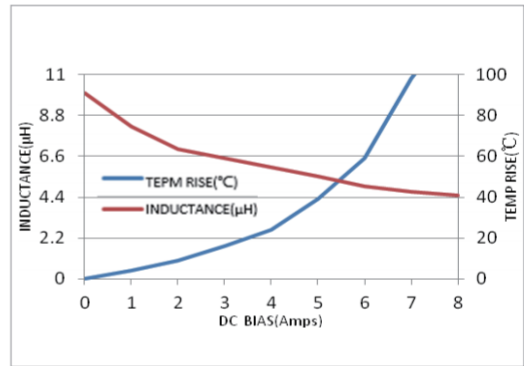
MWSA0402S-4R7MT



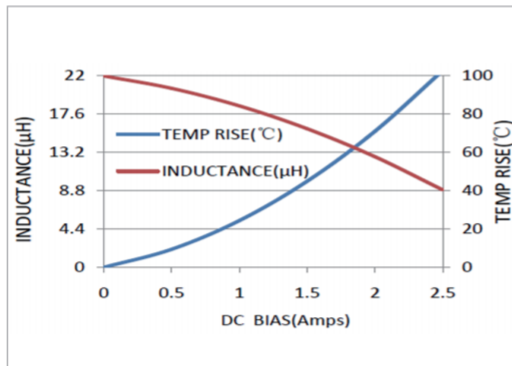
MWSA0402S-6R8MT



MWSA0402S-100MT

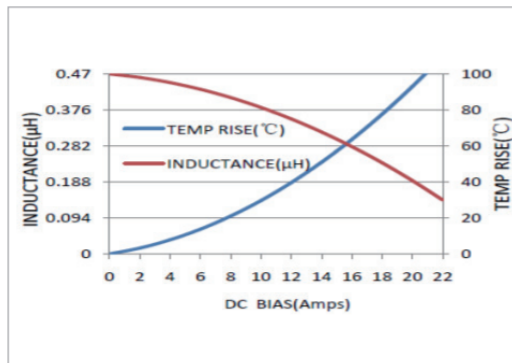


MWSA0402S-220MT

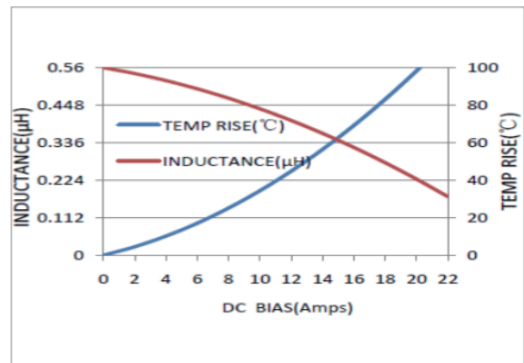


MWSA0518S Series

MWSA0518S-R47MT



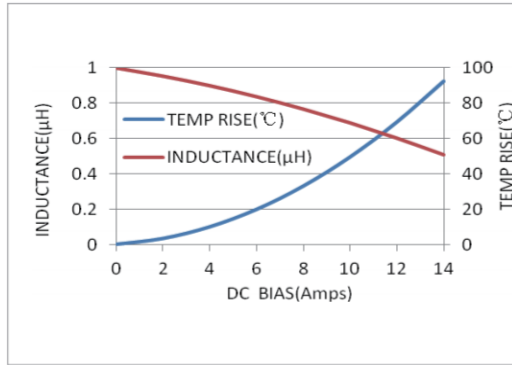
MWSA0518S-R56MT



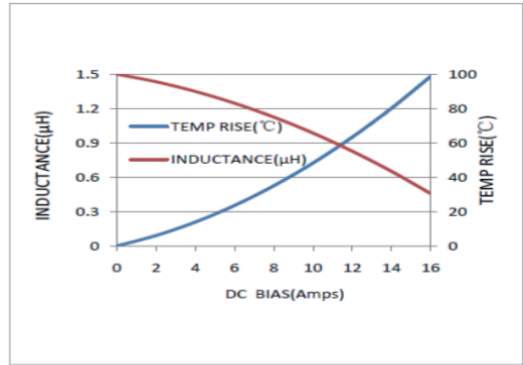
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA0518S Series

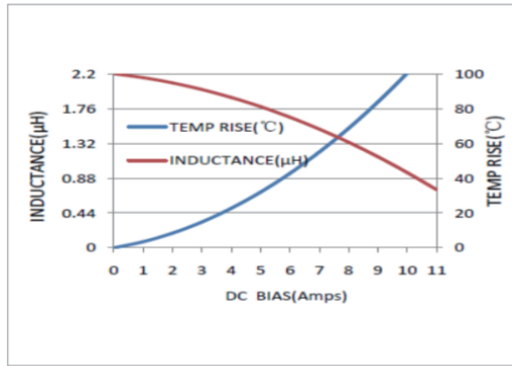
MWSA0518S-1R0MT



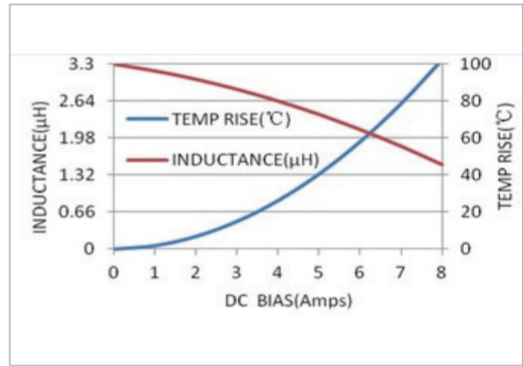
MWSA0518S-1R5MT



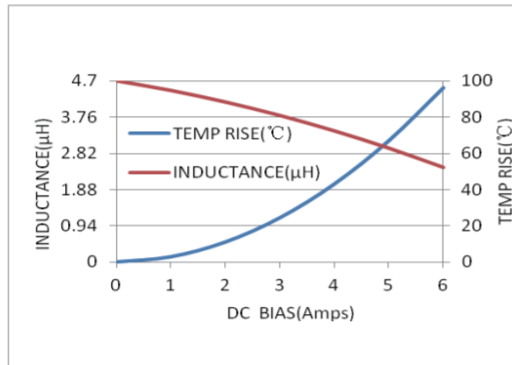
MWSA0518S-2R2MT



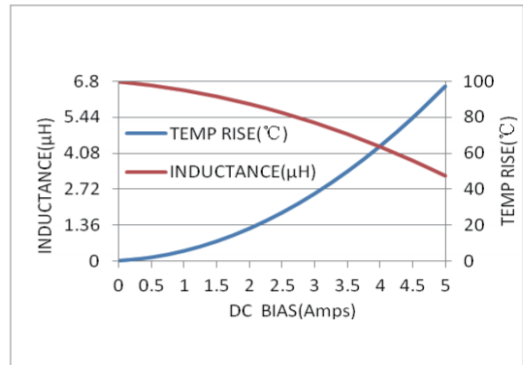
MWSA0518S-3R3MT



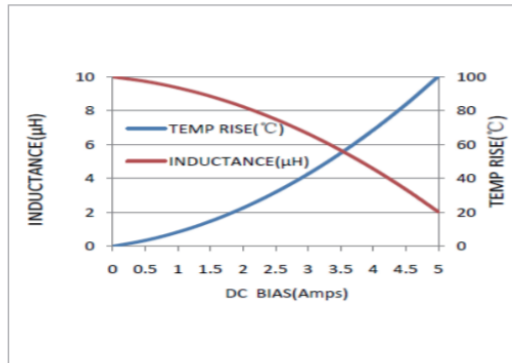
MWSA0518S-4R7MT



MWSA0518S-6R8MT



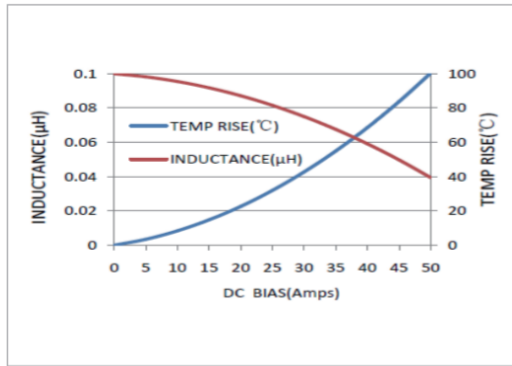
MWSA0518S-100MT



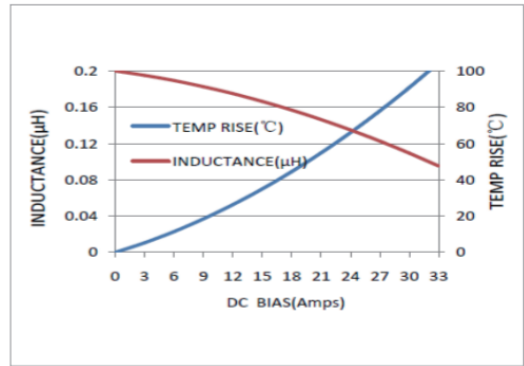
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA0503S Series

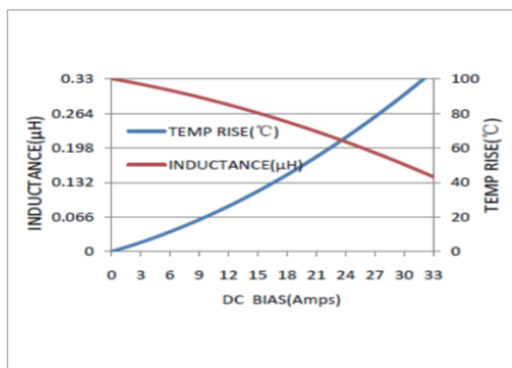
MWSA0503S-R10MT



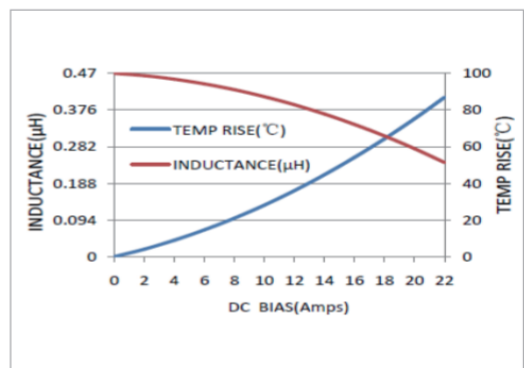
MWSA0503S-R20MT



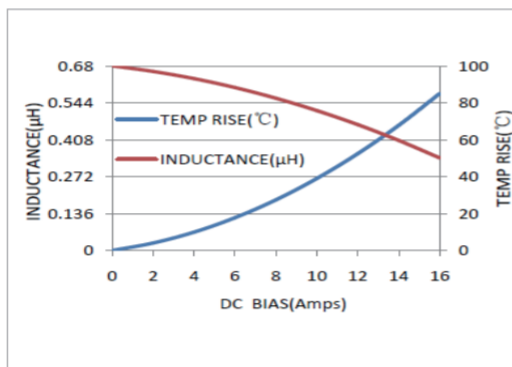
MWSA0503S-R33MT



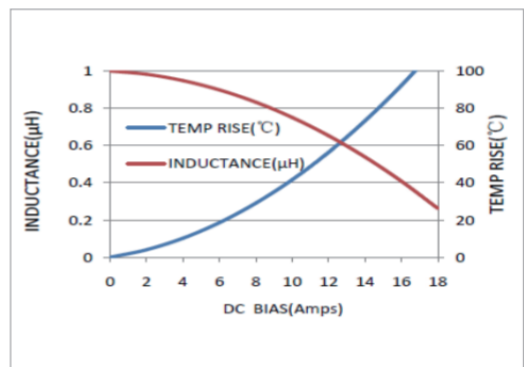
MWSA0503S-R47MT



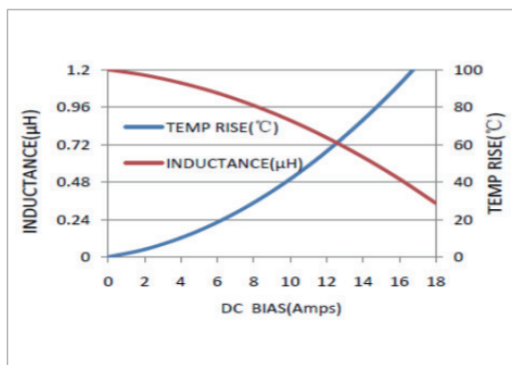
MWSA0503S-R68MT



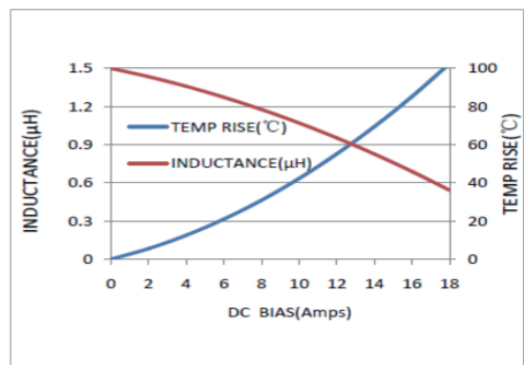
MWSA0503S-1R0MT



MWSA0503S-1R2MT



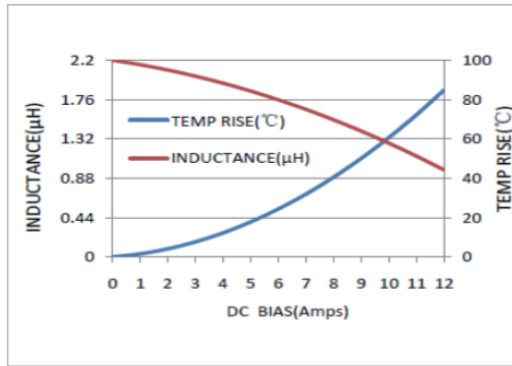
MWSA0503S-1R5MT



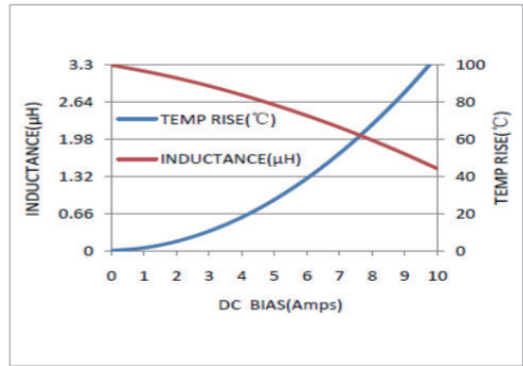
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA0503S Series

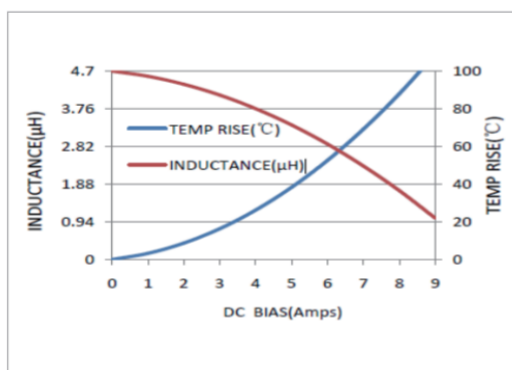
MWSA0503S-2R2MT



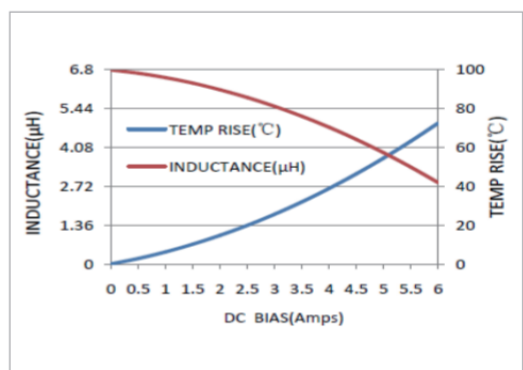
MWSA0503S-3R3MT



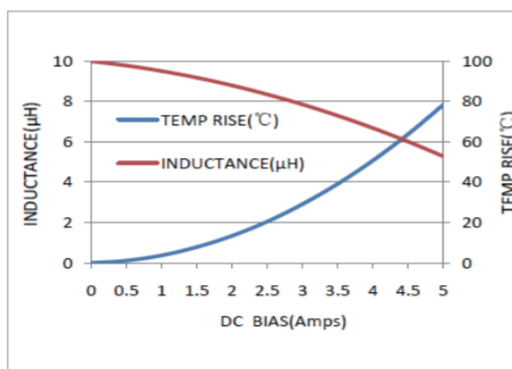
MWSA0503S-4R7MT



MWSA0503S-6R8MT

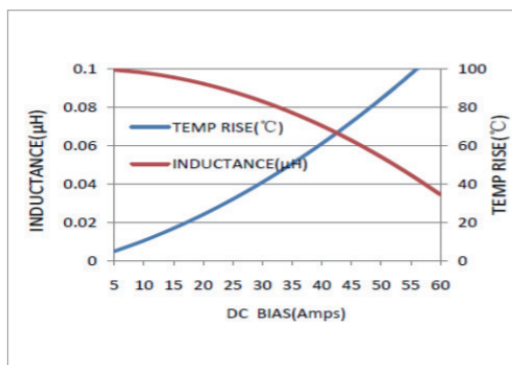


MWSA0503S-100MT

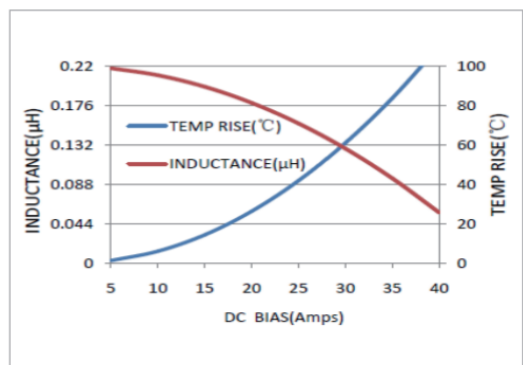


MWSA0618S Series

MWSA0618S-R10MT

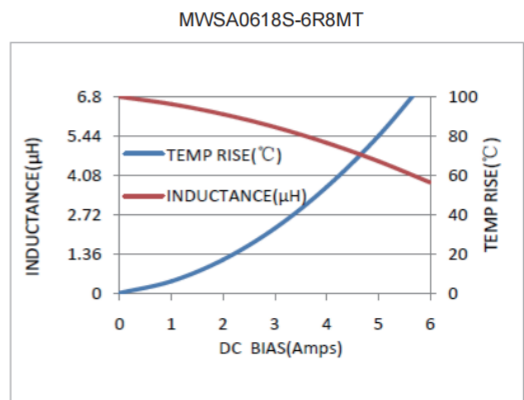
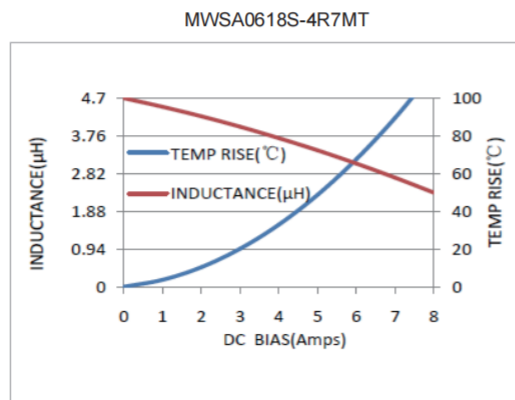
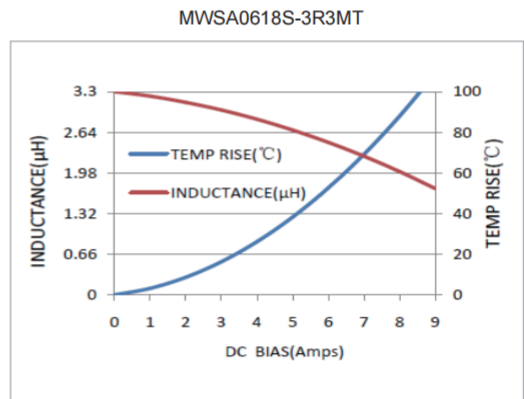
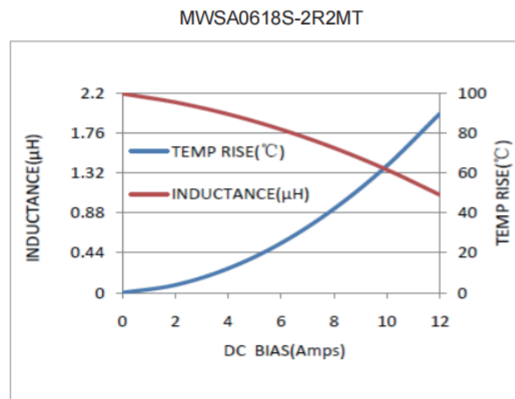
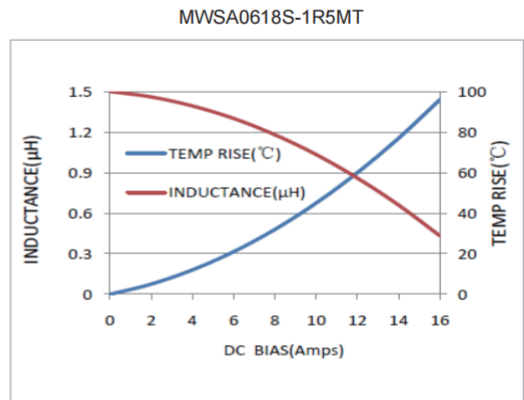
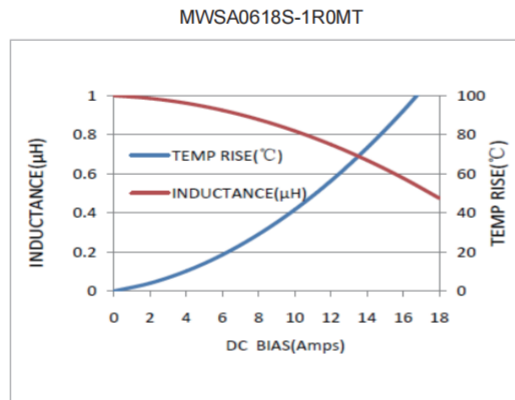
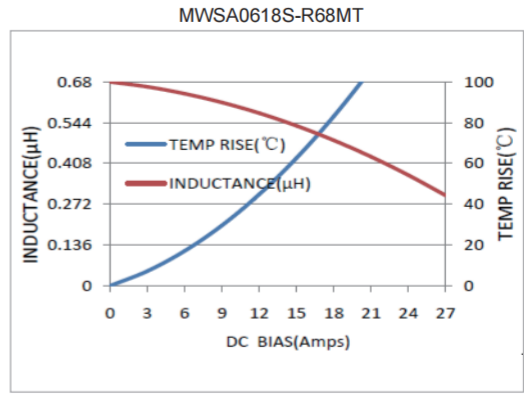
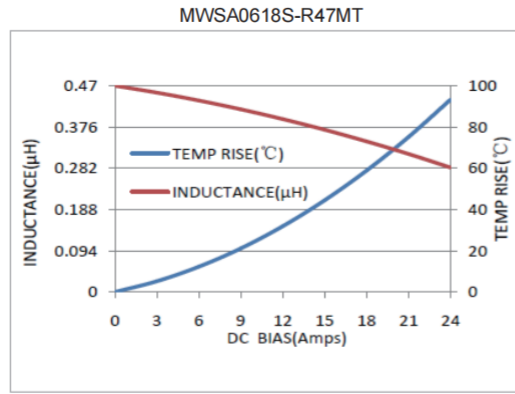


MWSA0618S-R22MT



TYPICAL ELECTRICAL CHARACTERISTICS

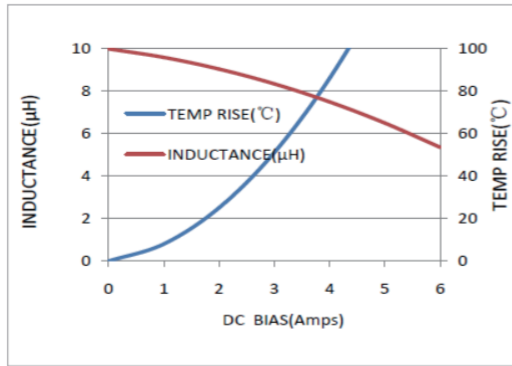
MWSA0618S Series



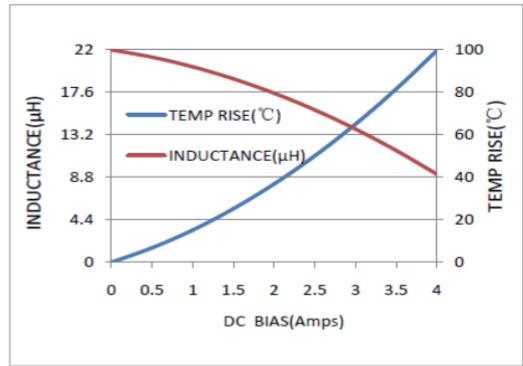
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA0618S Series

MWSA0618S-100MT

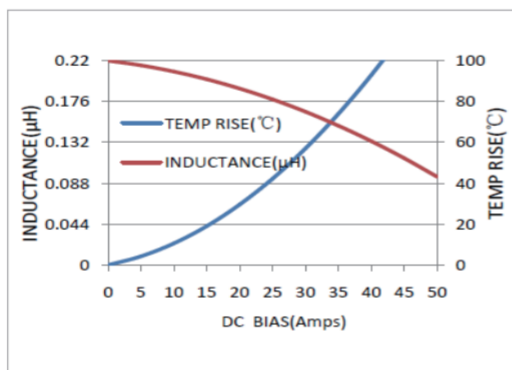


MWSA0618S-220MT

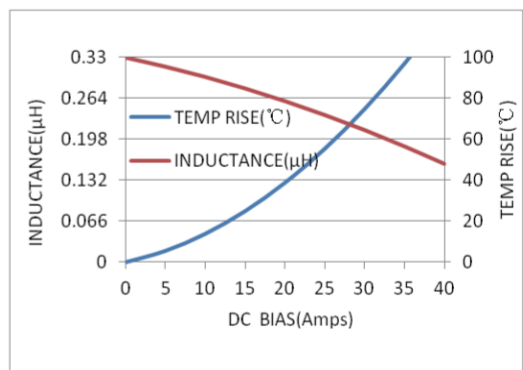


MWSA0624S Series

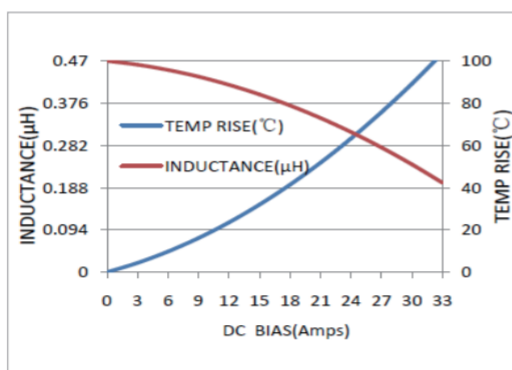
MWSA0624S-R22MT



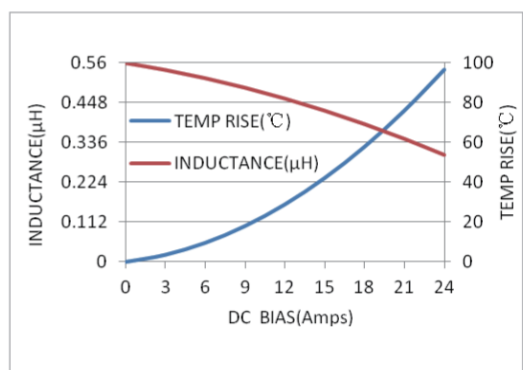
MWSA0624S-R33MT



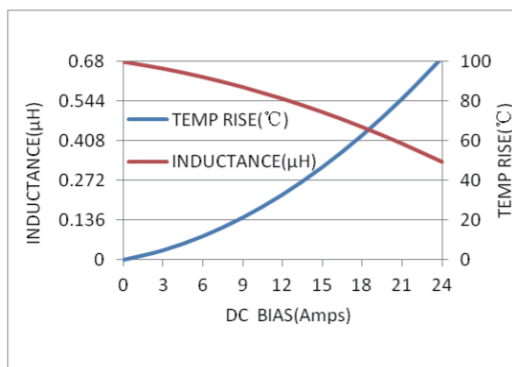
MWSA0624S-R47MT



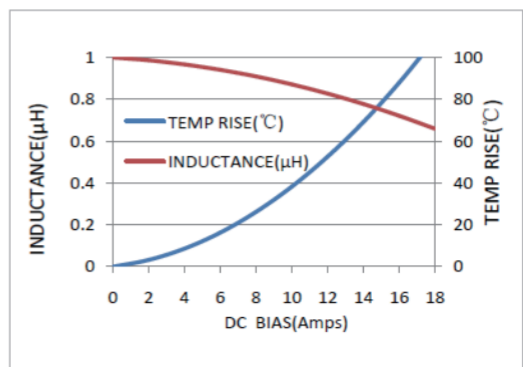
MWSA0624S-R56MT



MWSA0624S-R68MT

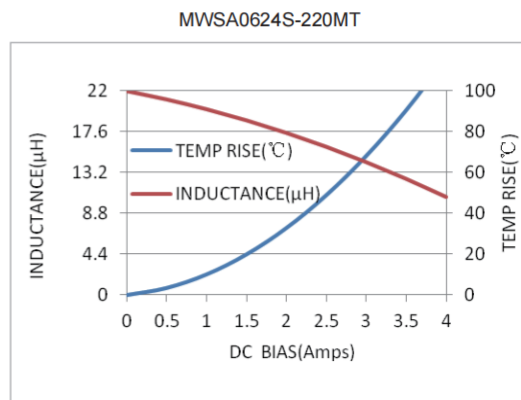
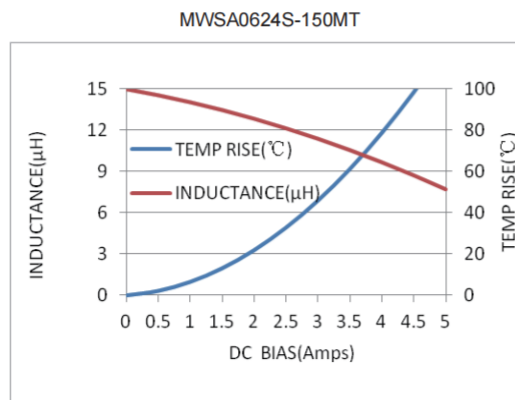
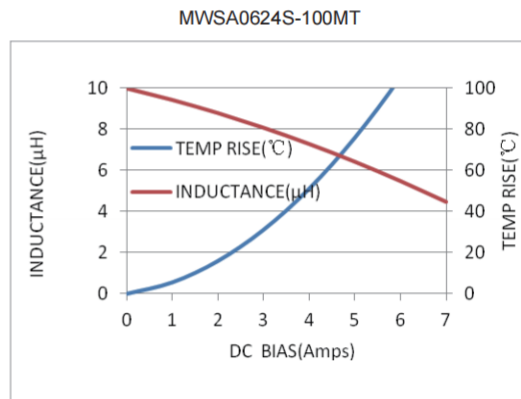
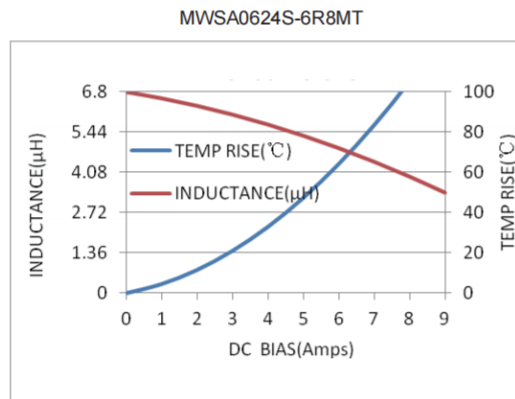
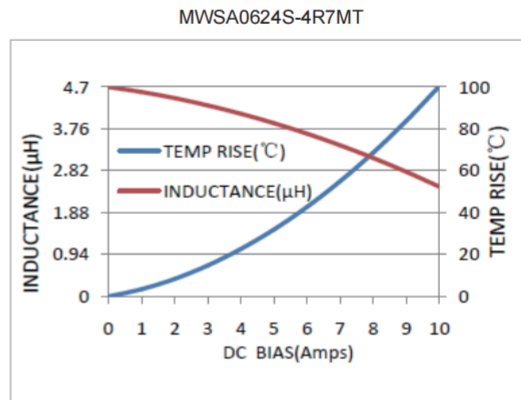
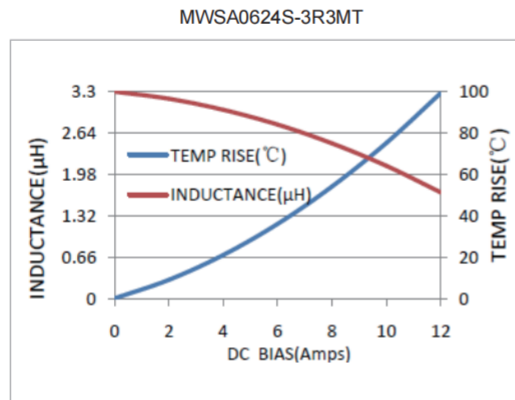
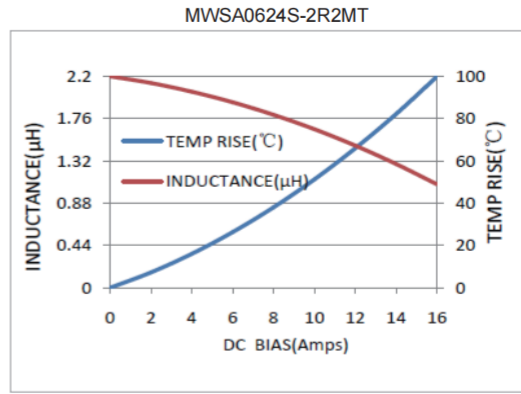
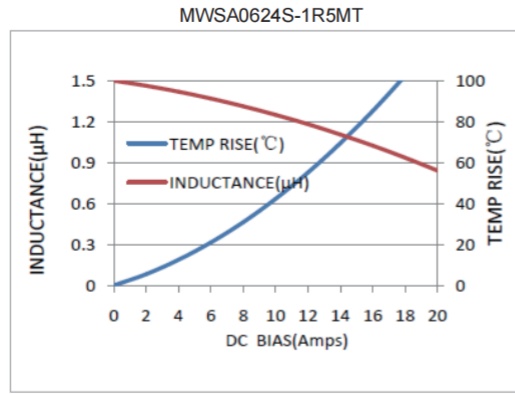


MWSA0624S-1R0MT



TYPICAL ELECTRICAL CHARACTERISTICS

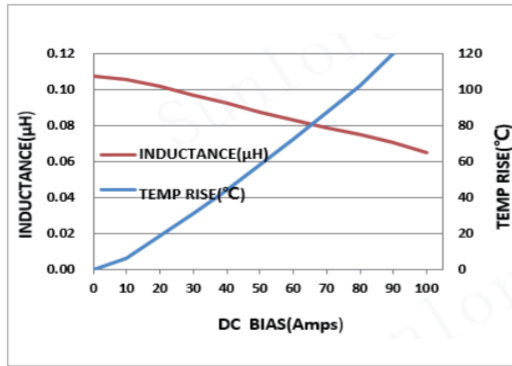
MWSA0624S Series



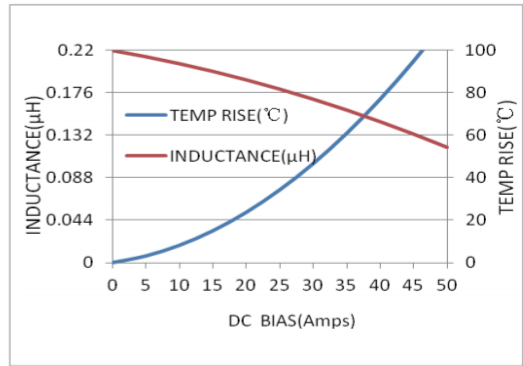
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA0603S Series

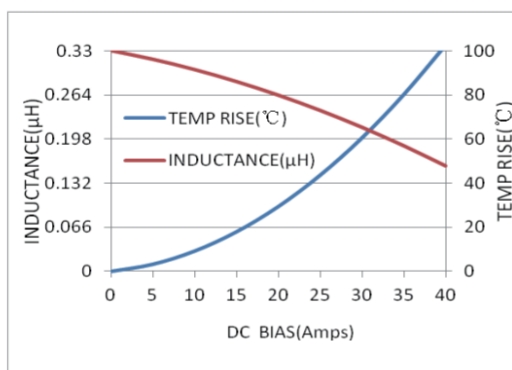
MWSA0603S-R10MT



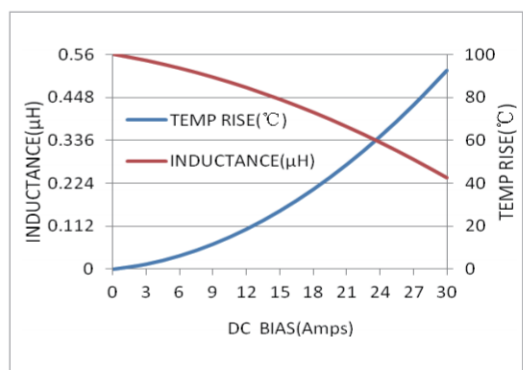
MWSA0603S-R22MT



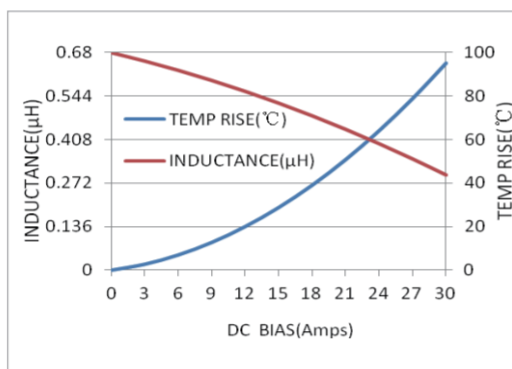
MWSA0603S-R33MT



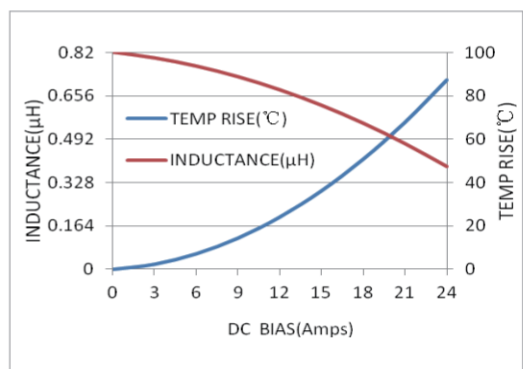
MWSA0603S-R56MT



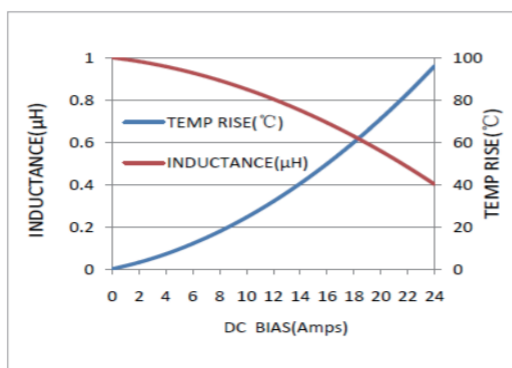
MWSA0603S-R68MT



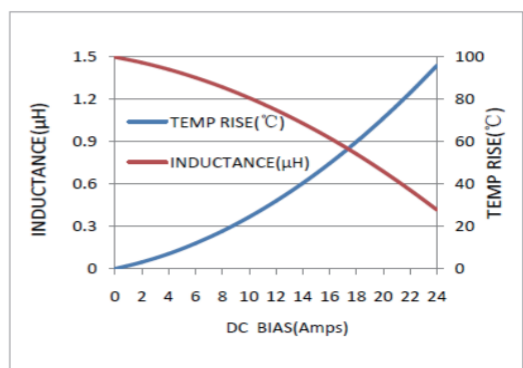
MWSA0603S-R82MT



MWSA0603S-1R0MT



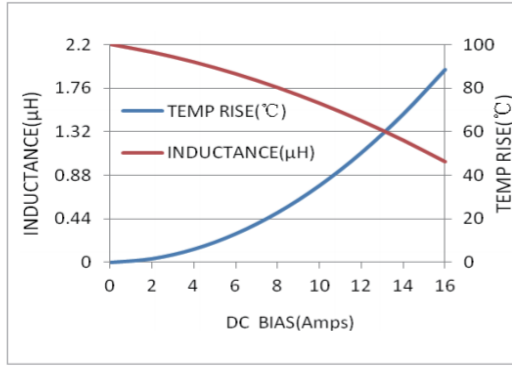
MWSA0603S-1R5MT



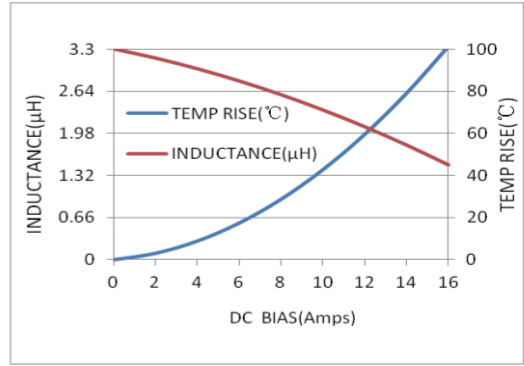
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA0603S Series

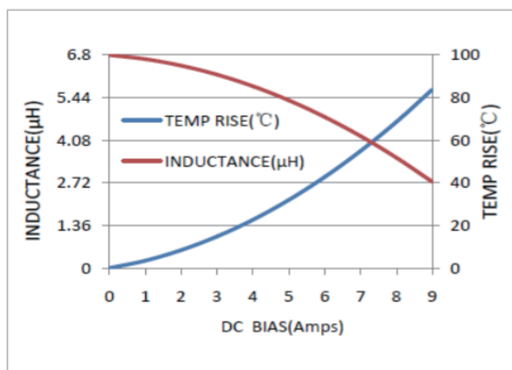
MWSA0603S-2R2MT



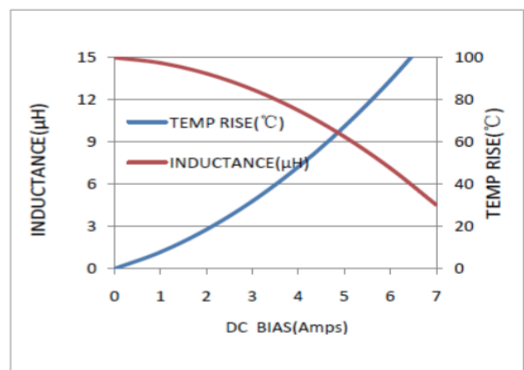
MWSA0603S-3R3MT



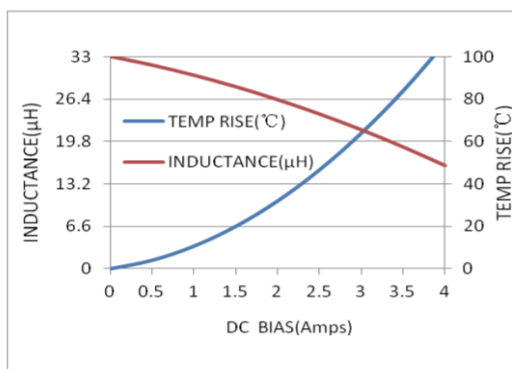
MWSA0603S-6R8MT



MWSA0603S-150MT

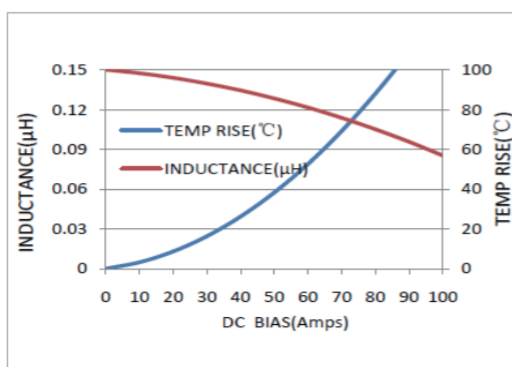


MWSA0603S-330MT

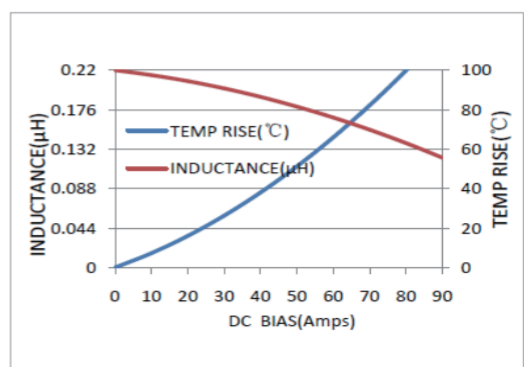


MWSA1004S Series

MWSA1004S-R15MT



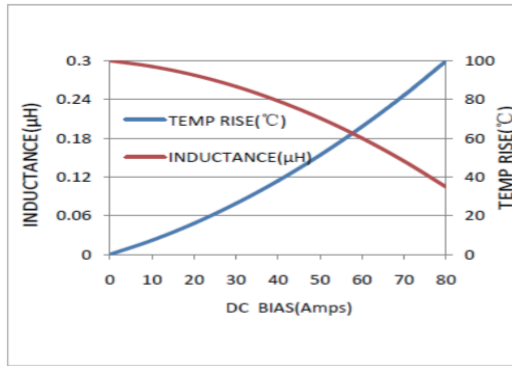
MWSA1004S-R22MT



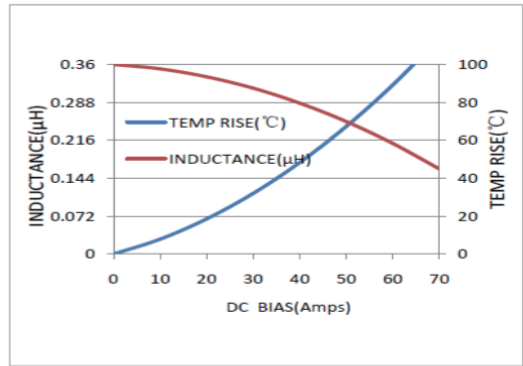
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA1004S Series

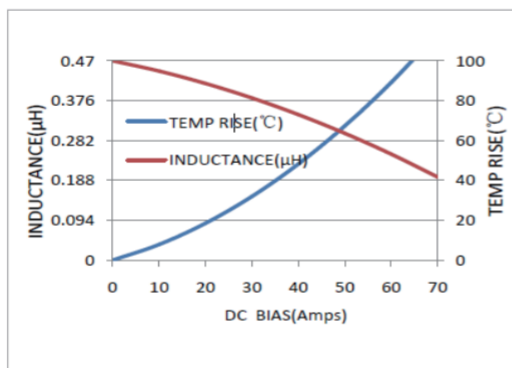
MWSA1004S-R30MT



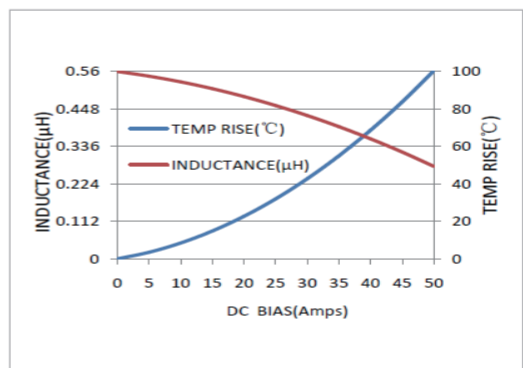
MWSA1004S-R36MT



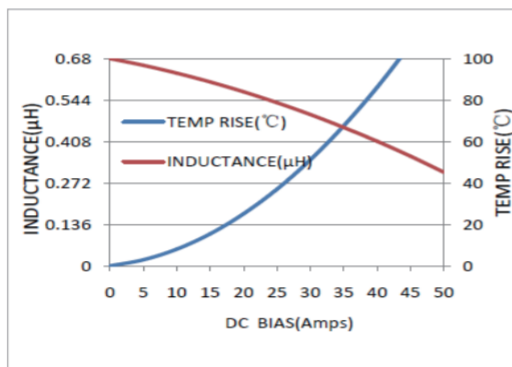
MWSA1004S-R47MT



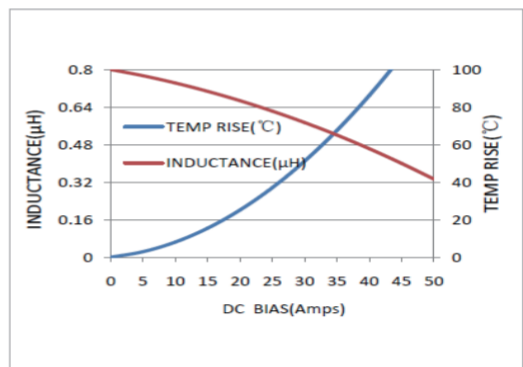
MWSA1004S-R56MT



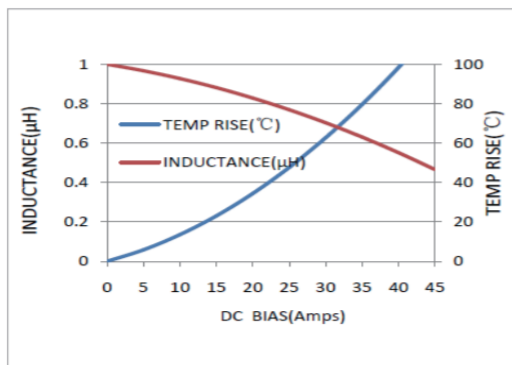
MWSA1004S-R68MT



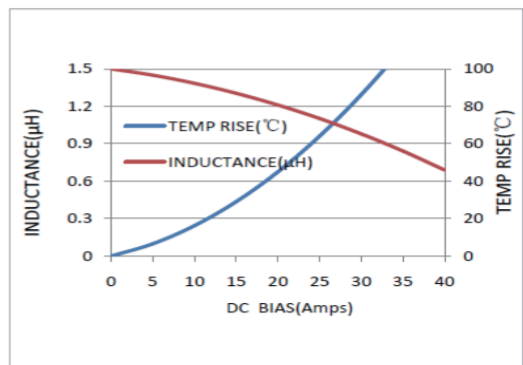
MWSA1004S-R80MT



MWSA1004S-1R0MT



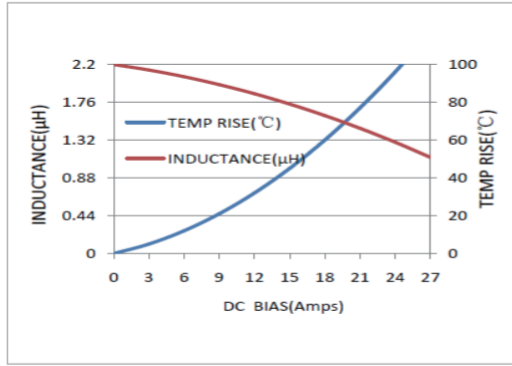
MWSA1004S-1R5MT



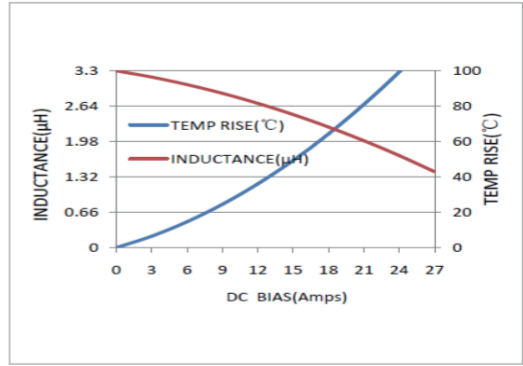
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA1004S Series

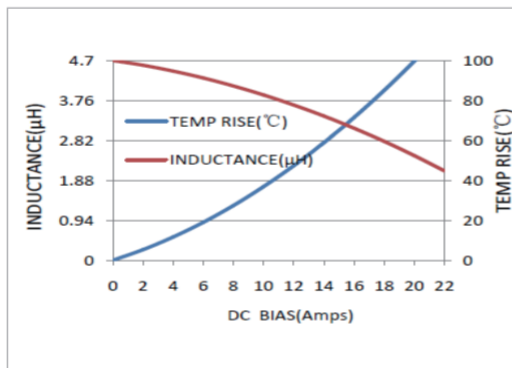
MWSA1004S-2R2MT



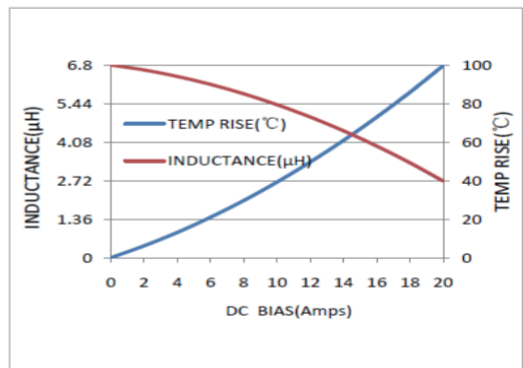
MWSA1004S-3R3MT



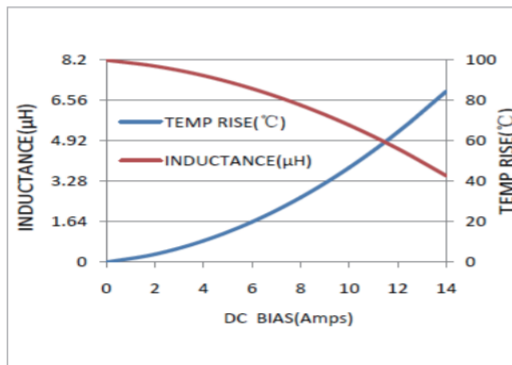
MWSA1004S-4R7MT



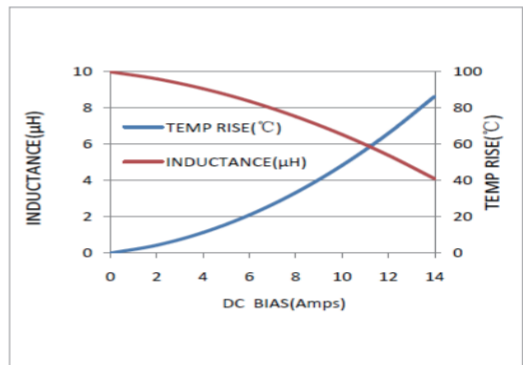
MWSA1004S-6R8MT



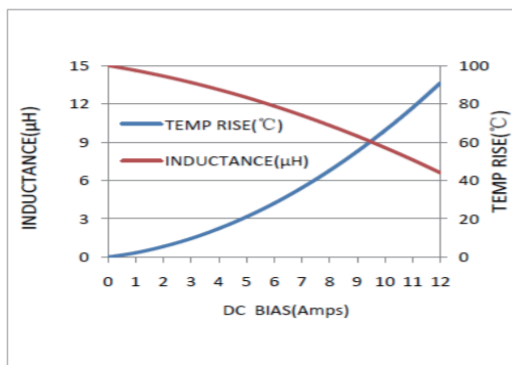
MWSA1004S-8R2MT



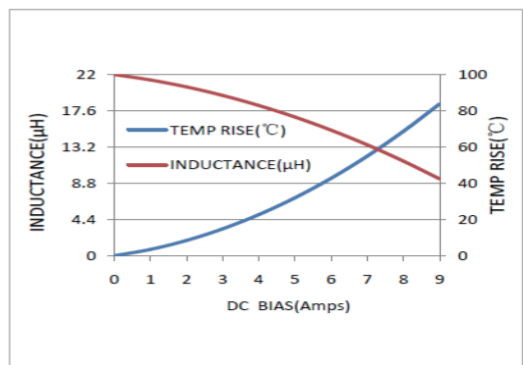
MWSA1004S-100MT



MWSA1004S-150MT



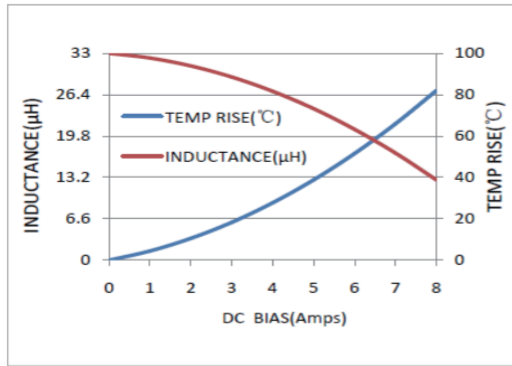
MWSA1004S-220MT



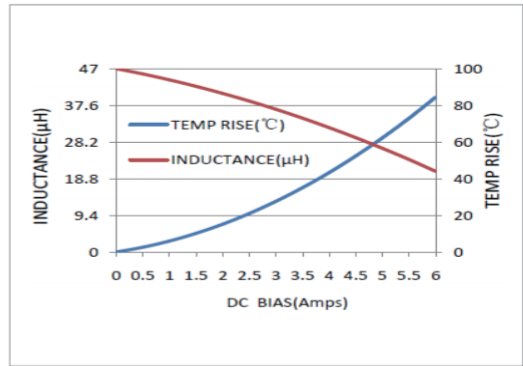
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA1004S Series

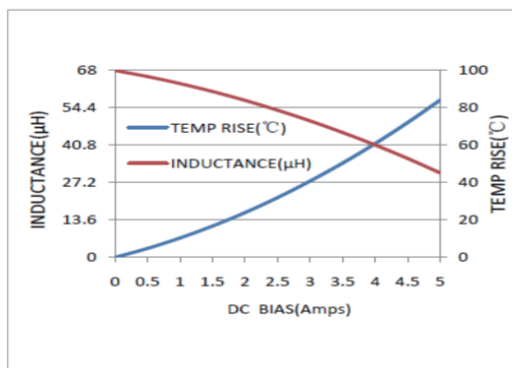
MWSA1004S-330MT



MWSA1004S-470MT

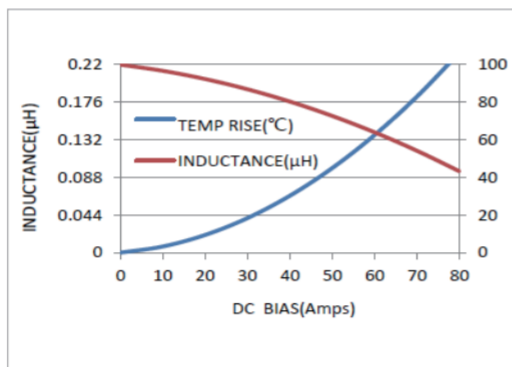


MWSA1004S-680MT

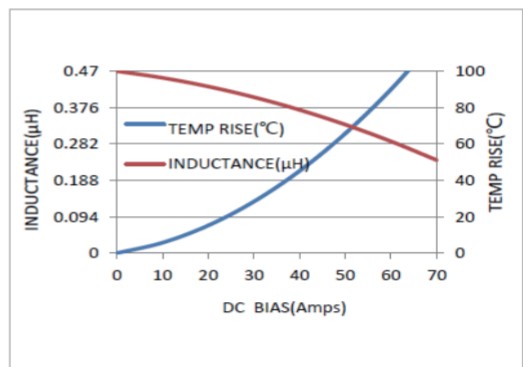


MWSA1204S Series

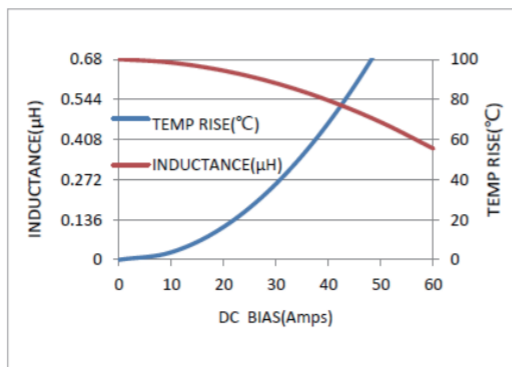
MWSA1204S-R22MT



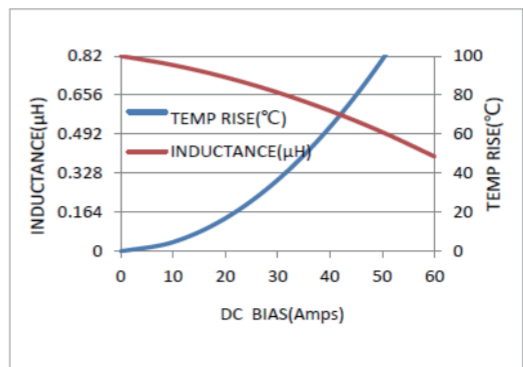
MWSA1204S-R47MT



MWSA1204S-R68MT

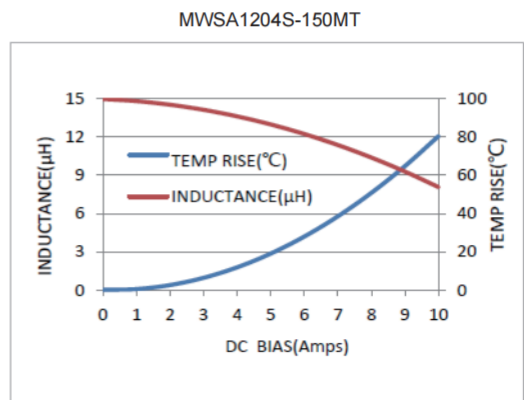
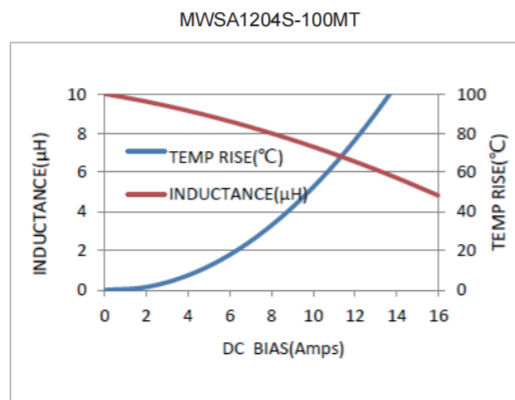
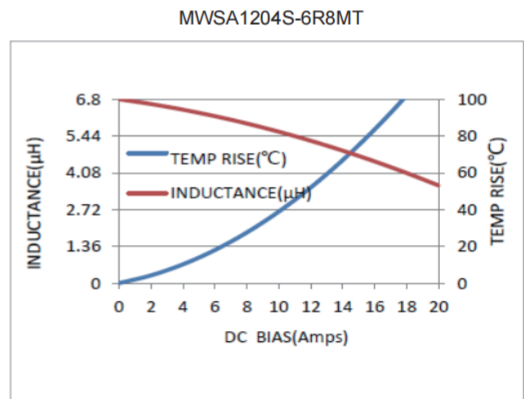
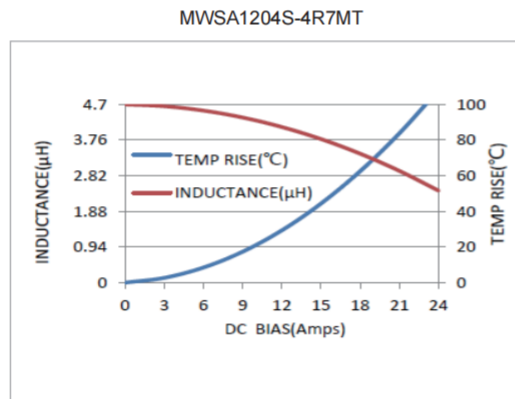
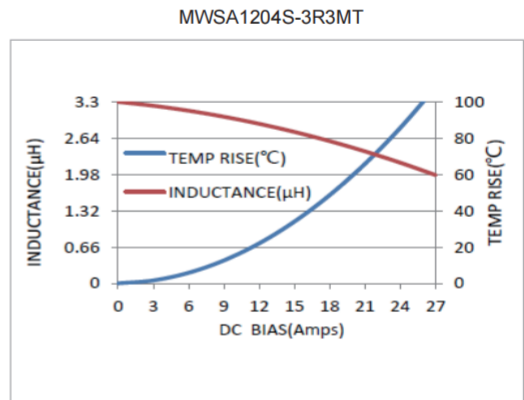
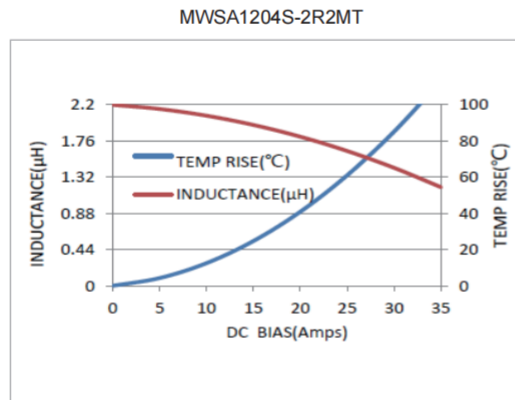
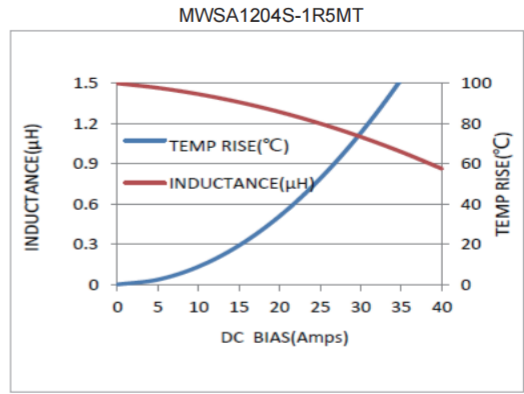
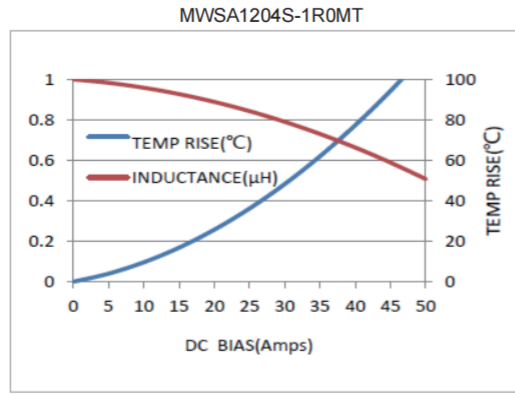


MWSA1204S-R82MT



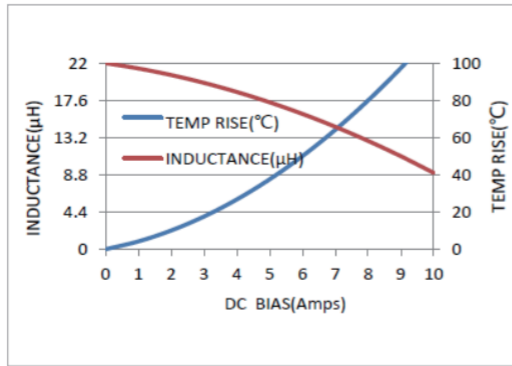
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA1204S Series

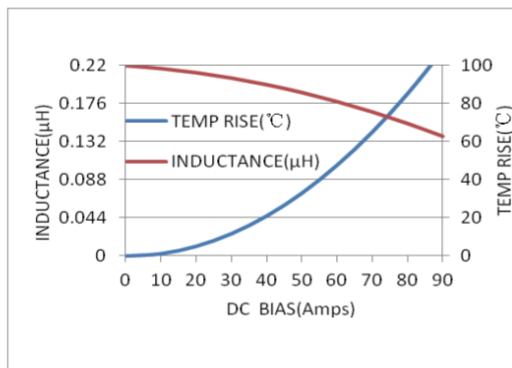


TYPICAL ELECTRICAL CHARACTERISTICS

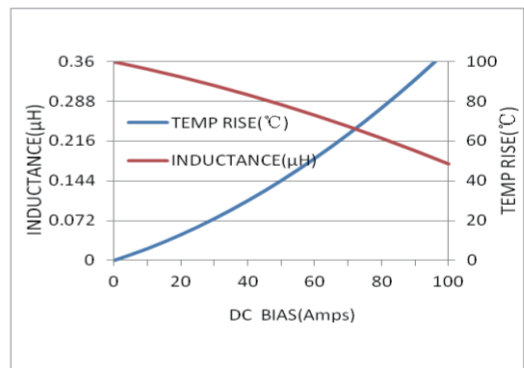
MWSA1204S Series
MWSA1204S-220MT



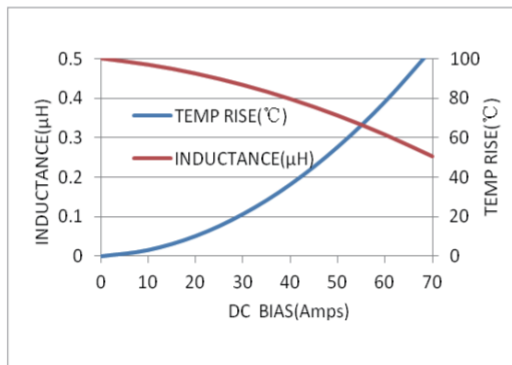
MWSA1205S Series
MWSA1205S-R22MT



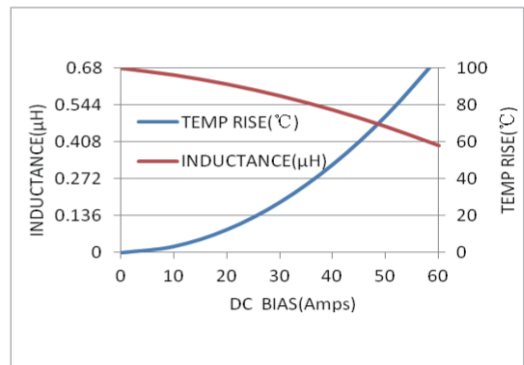
MWSA1205S-R36MT



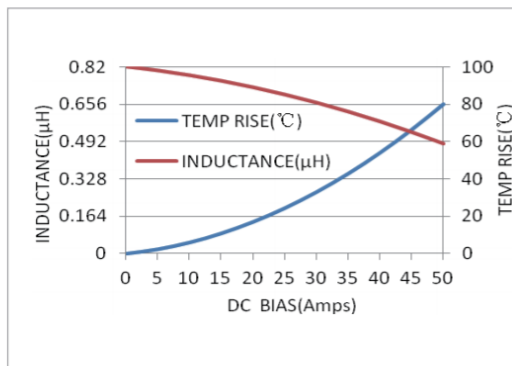
MWSA1205S-R50MT



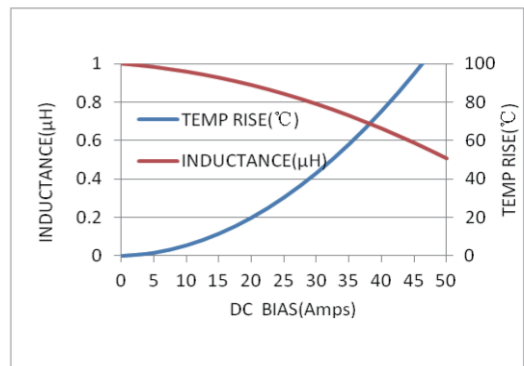
MWSA1205S-R68MT



MWSA1205S-R82MT

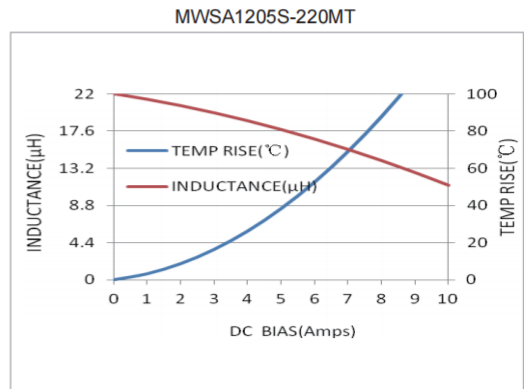
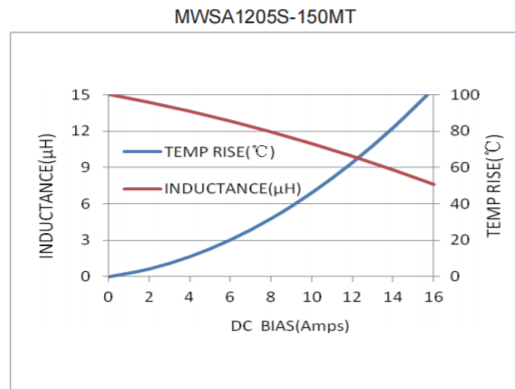
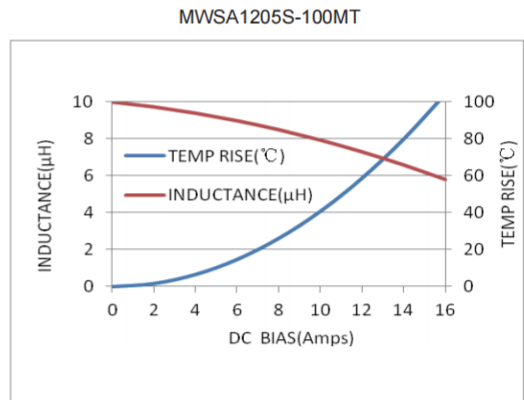
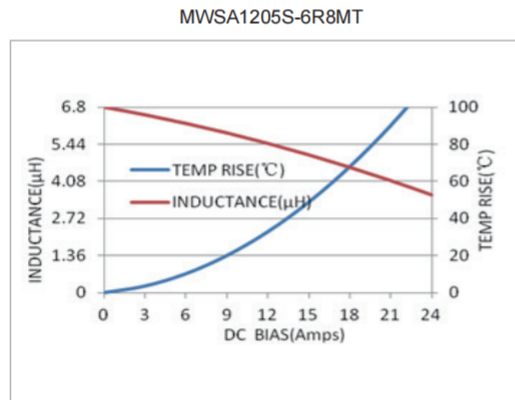
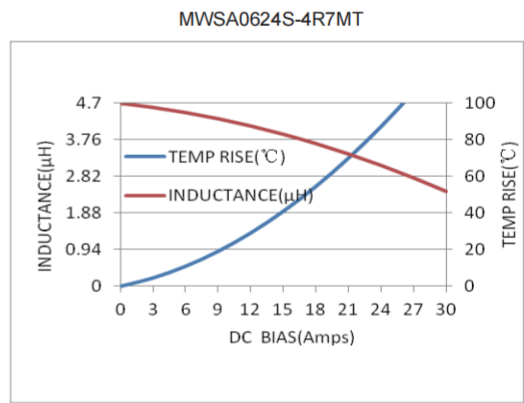
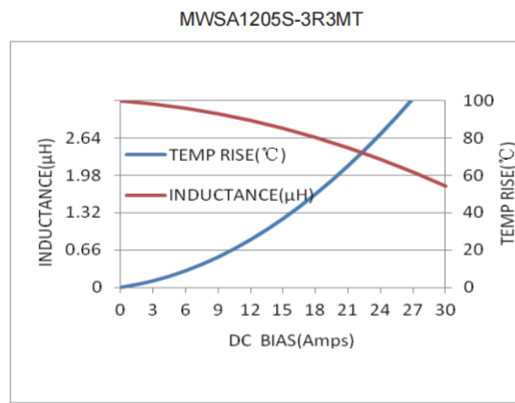
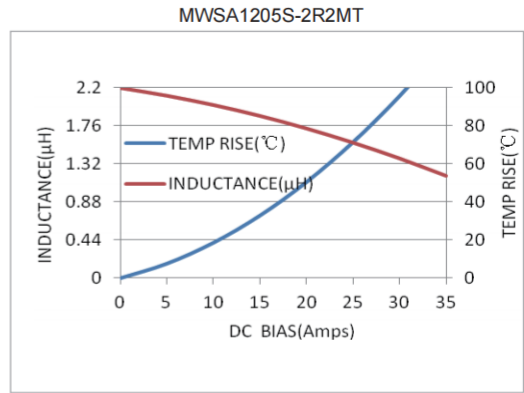
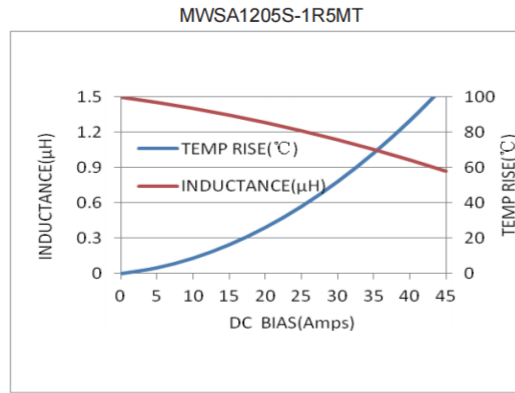


MWSA1205S-1R0MT



TYPICAL ELECTRICAL CHARACTERISTICS

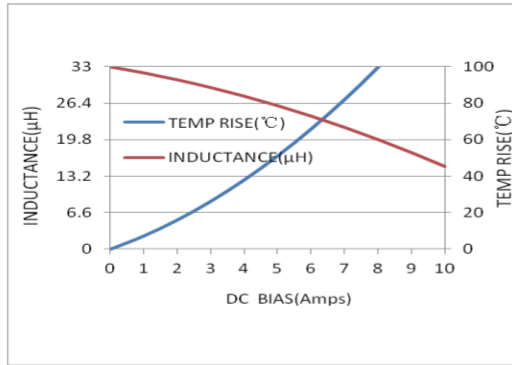
MWSA1205S Series



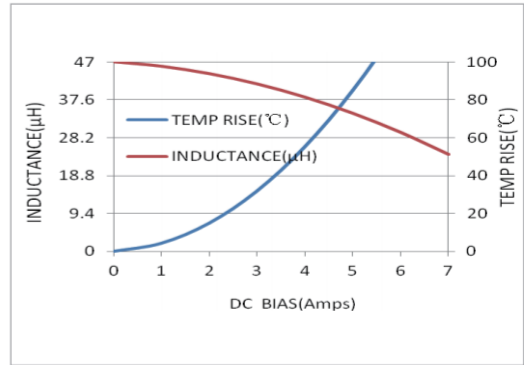
**TYPICAL
ELECTRICAL
CHARACTERISTICS**

MWSA1205S Series

MWSA1205S-330MT

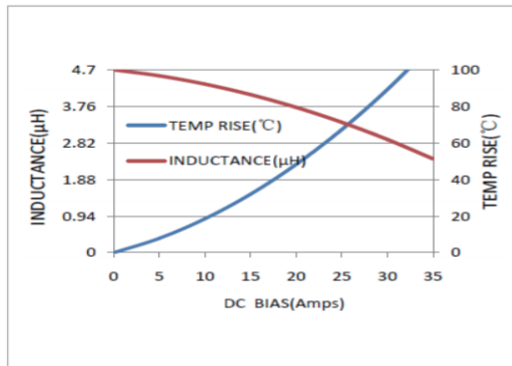


MWSA1205S-470MT

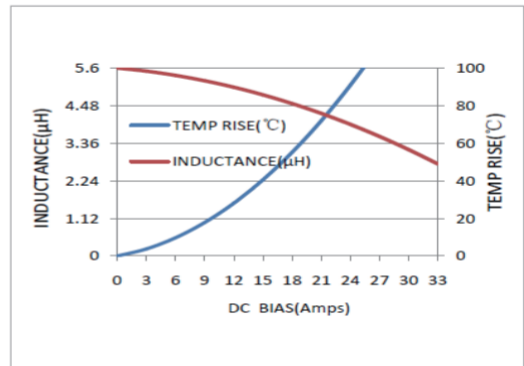


MWSA1206S Series

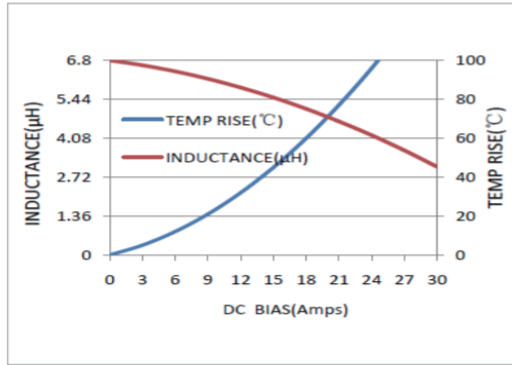
MWSA1206S-4R7MT



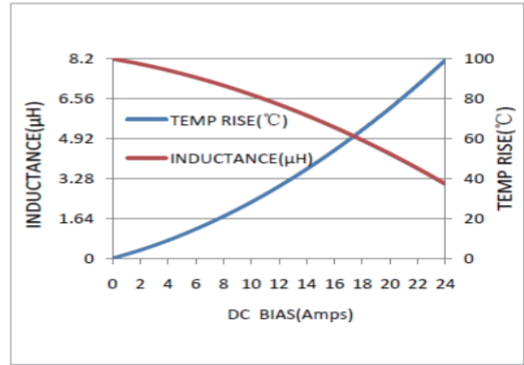
MWSA1206S-5R6MT



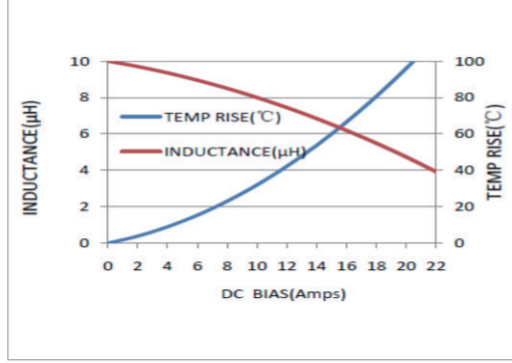
MWSA1206S-6R8MT



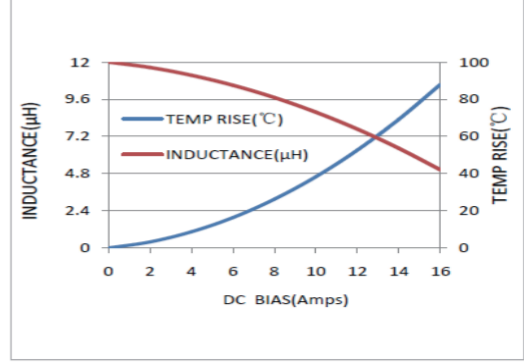
MWSA1206S-8R2MT



MWSA1206S-100MT



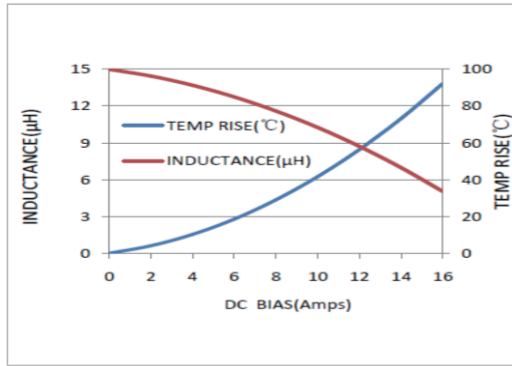
MWSA1206S-120MT



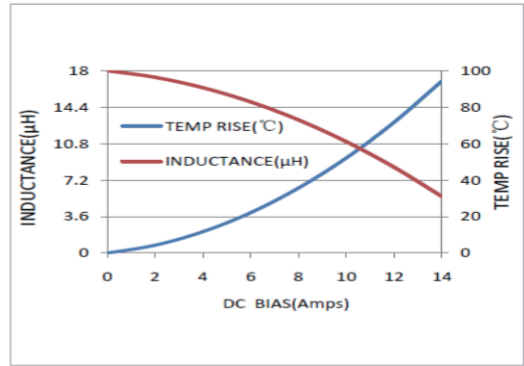
TYPICAL ELECTRICAL CHARACTERISTICS

MWSA1206S Series

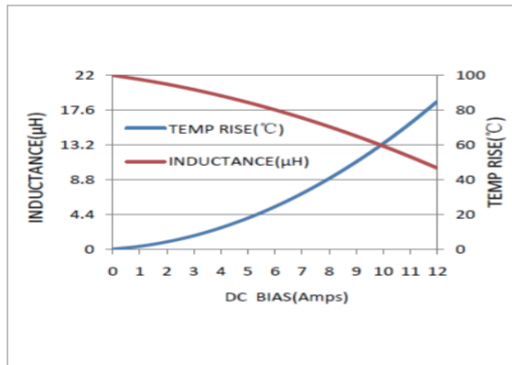
MWSA1206S-150MT



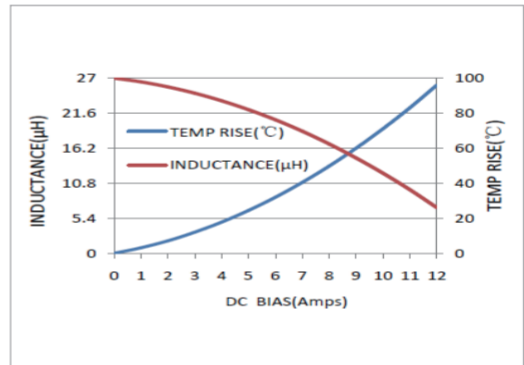
MWSA1206S-180MT



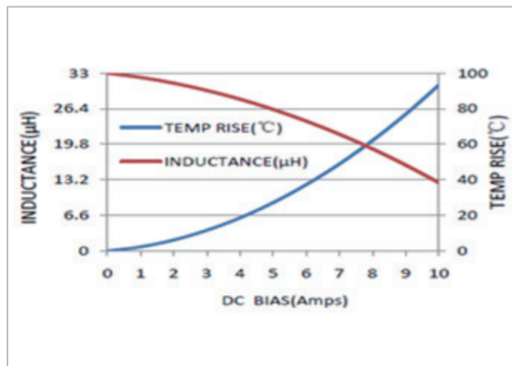
MWSA1206S-220MT



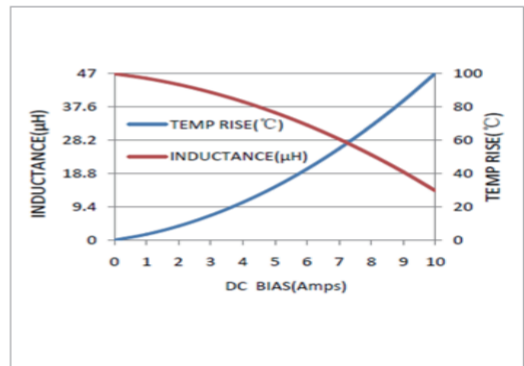
MWSA1206S-270MT



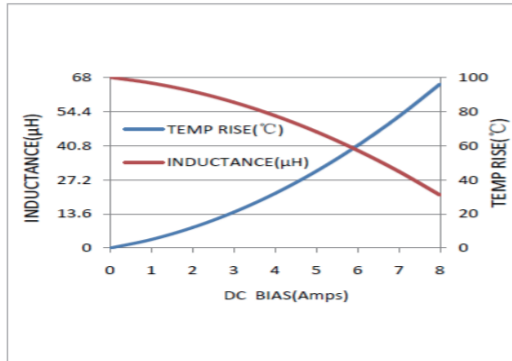
MWSA1206S-330MT



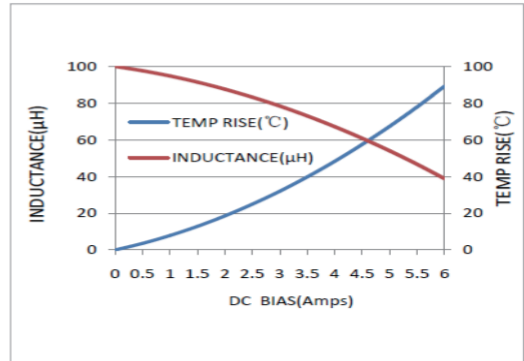
MWSA1206S-470MT



MWSA1206S-680MT



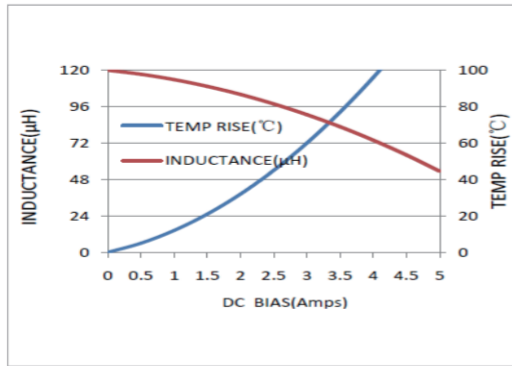
MWSA1206S-101MT



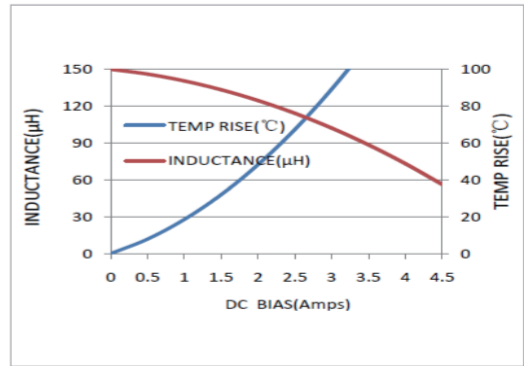
TYPICAL
ELECTRICAL
CHARACTERISTICS

MWSA1206S Series

MWSA1206S-121MT



MWSA1206S-151MT



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Fixed Inductors](#) category:

Click to view products by [Sunlord](#) manufacturer:

Other Similar products are found below :

[CR32NP-100KC](#) [70F224AI](#) [MHQ1005P10NJ](#) [MHQ1005P1N0S](#) [MHQ1005P2N4S](#) [MHQ1005P3N6S](#) [MHQ1005P5N1S](#) [MHQ1005P8N2J](#)
[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)
[HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-4R7M](#) [RCP1317NP-391L](#) [DH2280-4R7M](#) [DS1608C-106](#) [B10TJ](#) [B82498B3101J000](#) [ELJ-](#)
[RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#)
[1812LS-224XJ](#) [1812LS-563XJ](#) [1812LS-683XJ](#) [1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-](#)
[HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#) [NIN-HDR82JTRF](#) [NIN-HK2N7STRF](#) [NIN-PA150KTR370F](#) [NIN-PB100KTR550F](#)