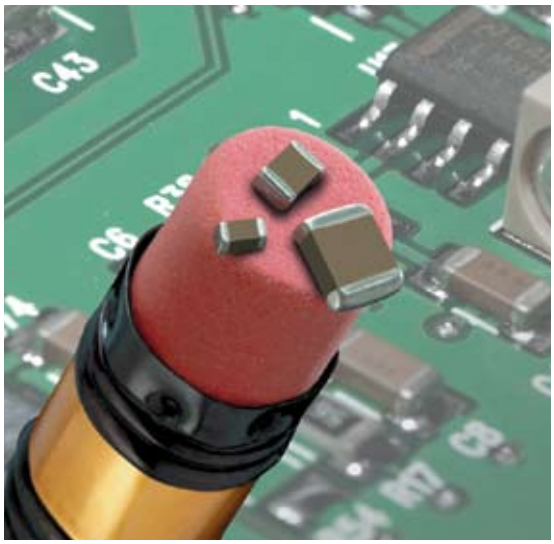
TANCERAM® CHIP CAPACITORS



TANCERAM® chip capacitors can replace tantalum capacitors in many applications and offer several key advantages over traditional tantalums. Because Tanceram® capacitors exhibit extremely low ESR, equivalent circuit performance can often be achieved using considerably lower capacitance values. Low DC leakage reduces current drain, extending the battery life of portable products. Tancerams® high DC breakdown voltage ratings offer improved reliability and eliminate large voltage de-rating common when designing with tantalums.

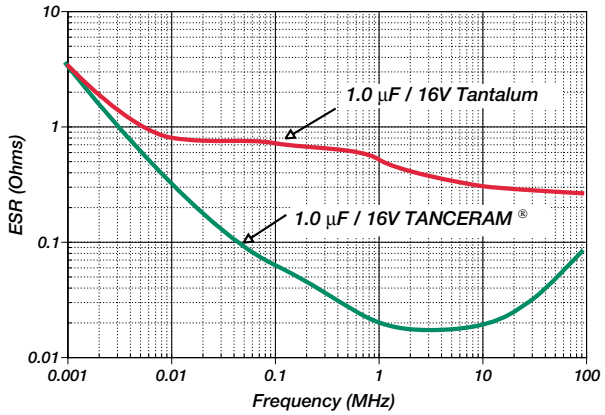
ADVANTAGES

- Low ESR
- Higher Surge Voltage
- Reduced CHIP Size
- Higher Insulation Resistance
- Low DC Leakage
- Non-polarized Devices
- Improved Reliability
- Higher Ripple Current

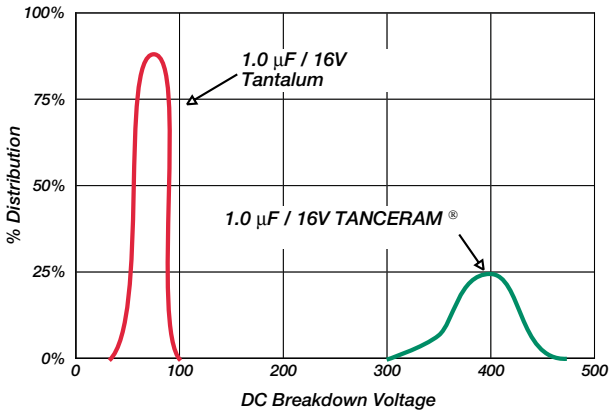
APPLICATIONS

- Switching Power Supply Smoothing (Input/Output)
- DC/DC Converter Smoothing (Input/Output)
- Backlighting Inverters
- General Digital Circuits

Typical ESR Comparison



Typical Breakdown Voltage Comparison



HOW TO ORDER TANCERAM®

250	R18	Y	105	Z	V	4	E

VOLTAGE
500 = 50 V
250 = 25 V
160 = 16 V
100 = 10 V
6R3 = 6.3 V

CASE SIZE
See Chart

DIELECTRIC
W = X7R
X = X5R
Y = Y5V

CAPACITANCE
1st two digits are significant; third digit denotes number of zeros.
474 = 0.47 µF
105 = 1.00 µF

TOLERANCE
Y5V
Z = +80% -20%
X7R/X5R
K = ±10%
M = ±20%

TERMINATION
V = Ni barrier w/ 100% Sn Plating

MARKING
4 = Unmarked

TAPE MODIFIER

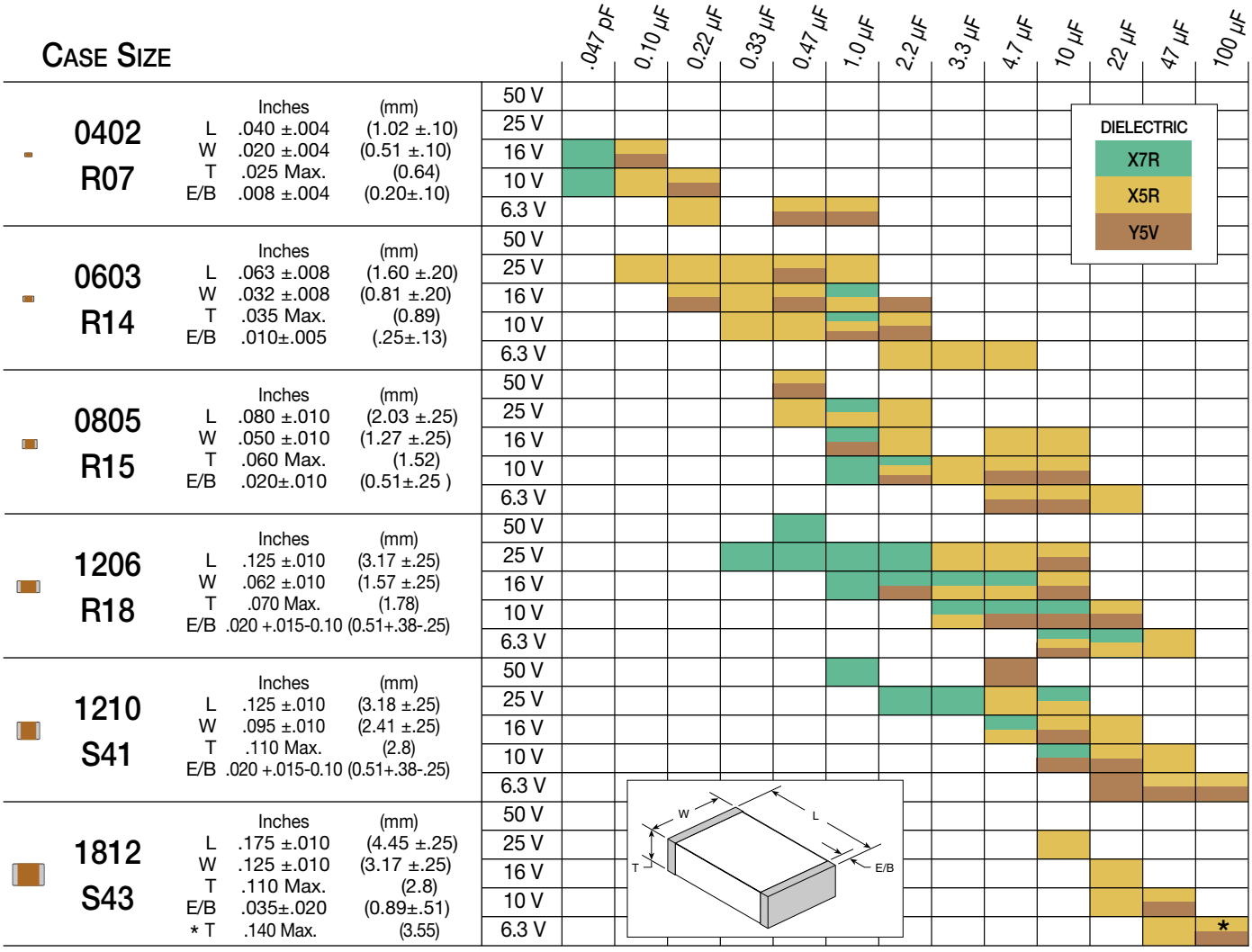
Code	Type	Reel
E	Plastic	7"
T	Paper	7"

Tape specifications conform to EIA RS481

P/N written: 250R18Y105ZV4E

TANCERAM® CHIP CAPACITORS

CAPACITANCE SELECTION



ELECTRICAL CHARACTERISTICS

	X7R	X5R	Y5V
Temperature Coefficient:	±15% (-55 to +125°C)	±15% (-55 to +85°C)	+22%, -82% (-30 to +85°C)
Dissipation Factor:	For ≥ 50 VDC: 5% max. For ≤ 25 VDC: 10% max.	For ≥ 50 VDC: 5% max. For ≤ 25 VDC: 10% max.	For ≥ 10 VDC: 16% max. For 6.3 VDC: 20% max.
Insulation Resistance (Min. @ 25°C, WVDC)	500 ΩF or 10 GΩ, whichever is less		
Dielectric Strength:	2.5 X WVDC, 25°C, 50mA max.		
Test Conditions:	Capacitance values ≤ 22 µF: 1.0kHz±50Hz @ 1.0±0.2 Vrms Capacitance values > 22 µF: 120Hz±10Hz @ 0.5V±0.1 Vrms		
Other:	See page 20 for additional dielectric specifications.		

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D55342E07B523DR-T/R NCA1206X7R103K50TRPF NCA1206X7R104K16TRPF NIN-FB391JTRF NIN-FC2R7JTRF NMC0402NPO220J50TRPF NMC0402X5R105K6.3TRPF NMC0402X5R224K6.3TRPF NMC0402X7R103J25TRPF NMC0402X7R153K16TRPF NMC0603NPO330G50TRPF NMC0603NPO331F50TRPF NMC0603X5R475M6.3TRPF NMC0805NPO220J100TRPF NMC0805NPO270J50TRPF NMC0805NPO681F50TRPF NMC0805NPO820J50TRPF NMC0805X7R224K25TRPF NMC1206X7R102K50TRPF NMC1210Y5V105Z50TRPLPF NMC-H0805X7R472K250TRPF NMC-L0402NPO7R0C50TRPF NMC-L0603NPO2R2B50TRPF NMC-Q0402NPO8R2D200TRPF C1206C101J1GAC C1608C0G2A221J C1608X7R1E334K C2012C0G2A472J 2220J2K00562KXT KHC201E225M76N0T00 1812J2K00332KXT CCR06CG153FSV CDR14BP471CJUR CDR31BX103AKWR CDR33BX683AKUS CGA2B2C0G1H010C CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H120J CGA2B2C0G1H151J CGA2B2C0G1H1R5C CGA2B2C0G1H2R2C CGA2B2C0G1H390J CGA2B2C0G1H391J CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2C0G1H820J