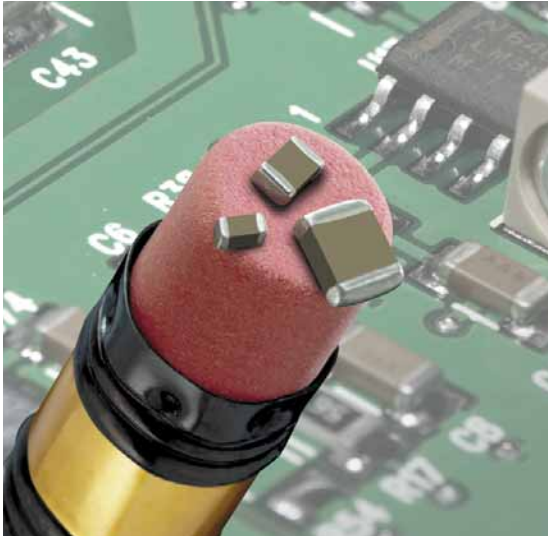


TANCERAM® CHIP CAPACITORS



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.

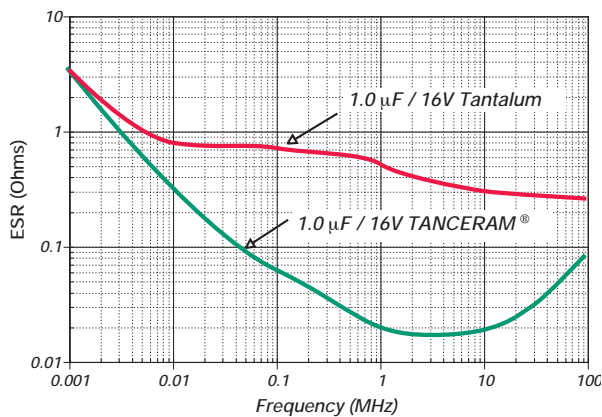
ADVANTAGES

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

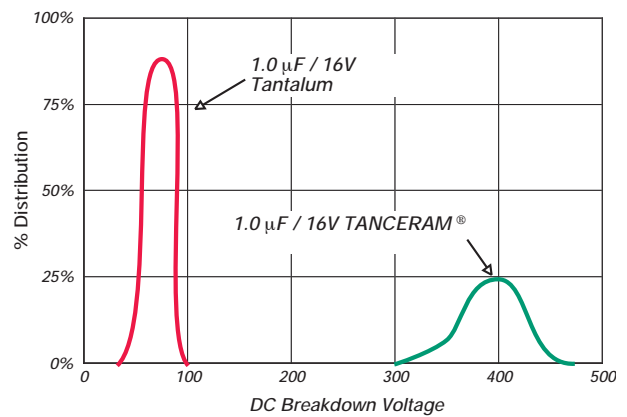
APPLICATIONS

- 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 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>Type</th> <th>Reel</th> </tr> </thead> <tbody> <tr> <td>E</td> <td>Plastic</td> <td>7"</td> </tr> <tr> <td>T</td> <td>Paper</td> <td>7"</td> </tr> </tbody> </table> Tape specifications conform to EIA RS481	Code	Type	Reel	E	Plastic	7"	T	Paper	7"
Code	Type	Reel														
E	Plastic	7"														
T	Paper	7"														

P/N written: 250R18Y105ZV4E



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