

LOW INDUCTANCE CHIP CAPACITORS



These MLC capacitors are specially designed to lower inductance by altering the aspect ratio of the termination in conjunction with improved conductivity of the electrodes. This inherent low ESL and ESR design improves the capacitor circuit performance by lowering the current change noise pulse and voltage drop. The system will benefit by lower power consumption, increased efficiency, and higher operating speeds.

FEATURES

- Low ESL
- High Resonant Frequency
- Low ESR
- Small Size

APPLICATIONS

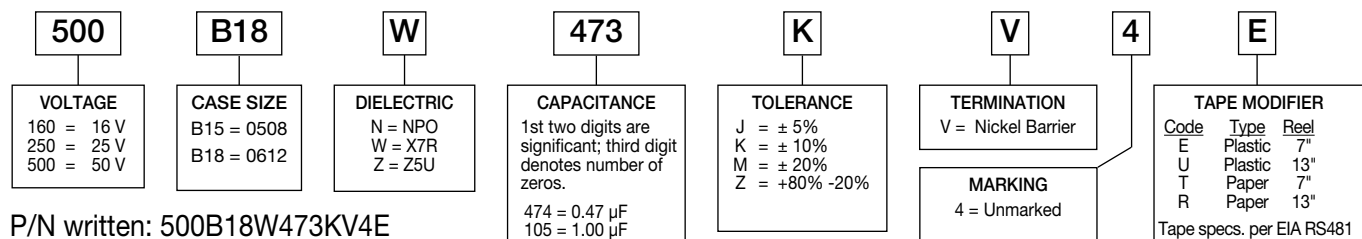
- High Speed Microprocessors
- AC Noise Reduction in multi-chip modules (MCM)
- High speed digital equipment

CAPACITANCE SELECTION

		Capacitance Values																				
		150 pF	180 pF	220 pF	330 pF	470 pF	1000 pF	1200 pF	2200 pF	3300 pF	4700 pF	.010 μ F	.012 μ F	.022 μ F	.033 μ F	.047 μ F	.10 μ F	.12 μ F	.22 μ F	.33 μ F	.47 μ F	1.00 μ F
B15 / 0508 Inches (mm) L .050 \pm .010 (1.27 \pm .25) W .080 \pm .010 (2.03 \pm .25) T .050 Max. (1.27) E/B .010 \pm .005 (0.25 \pm .13)	50 V	NPO						X7R						Z5U								
	25 V	DIELECTRIC																				
	16 V																					
B18 / 0612 Inches (mm) L .062 \pm .010 (1.57 \pm .25) W .125 \pm .010 (3.17 \pm .25) T .060 Max. (1.52) E/B .010 \pm .005 (0.25 \pm .13)	50 V	NPO						X7R						Z5U								
	25 V																					
	16 V																					

Dielectric specifications are listed on page 28 & 29.

HOW TO ORDER LOW INDUCTANCE



LOW INDUCTANCE CHIP CAPACITORS

TYPICAL PERFORMANCE

IMPEDANCE 0508 vs. 0805



IMPEDANCE 0612 vs. 1206



IMPEDANCE AND ESR 0612 0.1μF X7R



IMPEDANCE AND ESR 0612 0.1μF X7R



SERIES RESONANT FREQUENCY 0508 vs. 0805



0508 X7R SERIES RESONANT FREQUENCY

