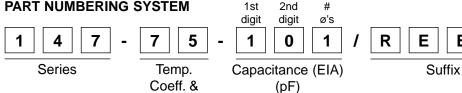
Ceramic Axial-Lead Capacitors (Small Body Style) CA10 Series

■ CHARACTERISTICS



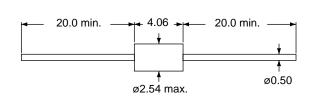
Item	Characteristics			
	NPO	X7R	Z5U	
Operating Temperature Range	-55°C ~ +125°C	-55°C ~ +125°C	-25°C ~ +85°C	
Working Voltage (WVDC)	50 (other voltages available upon special order, ask for details)			
Capacitance Range	10pF ~ 1200pF	330pF ~ 27000pF	1000pF ~ 470,000pF	
Temperature Characteristics	>20pF is 0 ±30ppm/°C; ≤20pF is 0 +120/-40ppm/°C	∆C ±15% maximum over -55°C ~ +125°C	ΔC +22/-55% maximum over +10°C ~ +85°C	
Dissipation Factor (Tan δ)	≥50pF is ≤0.001; <50pF is ≥1.5(150/C + 7) x 10 ⁴	≤0.025	≤0.030	
Measuring Conditions for Capacitance and DF	>1000pF is 1KHz, 1Vrms; ≤1000pF is 1MHz, 1Vrms	1KHz, 1Vrms	1KHz, 0.3Vrms	
Capacitance Aging	0	1.5% per decade hour	5% per decade hour	
Insulation Resistance (IR)	After 60 seconds charging at WV, 25°C: ≥100GΩ or ≥1,000MΩ per μF, whichever is less			
Solderability Test	235 ±5°C, immersion 2 ±0.5 seconds, 1.5mm ~ 2.0mm depth. At least 95% of leads should be well tinned			
Resistance to Soldering Heat Test	No visible damage. NPO is \leq ±0.5% or ±0.5pF; X7R is \leq +10/-5%; Z5U is \leq +20/-10%. Immersion in solder bath at 260 ±5°C for 10 ±1 seconds. Recovery for 24 ±2 hours.			
Rapid Change of Temp. Test	No visible damage. NPO and X7R at -55°C ~ +125°C; Z5U at -25°C ~ +85°C. Recovery for 24 ±2 hours.			
Life Test	No visible damage. NPO \triangle C/C is \le 2% or \pm 2pF; X7R \triangle C/C is \le +10%; Z5U \triangle C/C is \le +20%. DF is \le 1.5 x initial requirement. IR is \ge 0.25 x initial requirement. 1,000 hours at minimum temperature with 1.5 WV applied. Recovery for 24 \pm 2 hours			
Vibration Test	No visible damage. 5 cycles for 30 min. each: 10Hz ~ 2000KHz, apm. 0.75mm or 98m/sec. Total duration is 6 hours.			
Robustness of Termination Test	No visible damage. Visual inspection test: VAL is 10N, VB is 5N.			

■ PART NUMBERING SYSTEM

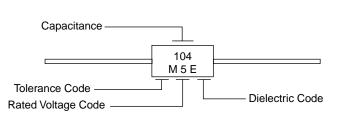


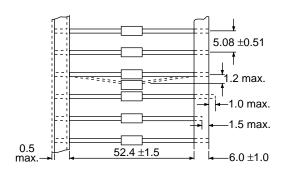
Temp. Coeff. & Tol. Code:
75 = NPO, 5%
71 = X7R, 10%
72 = Z5U, 20%

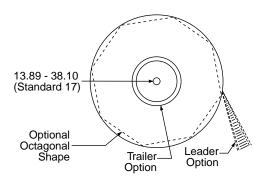
■ DIMENSIONS (mm)



Tolerance







Ε