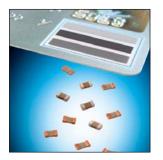
UltraThin Ceramic Capacitors

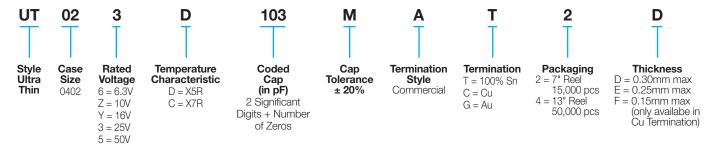






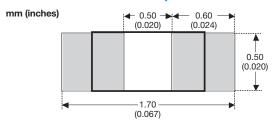
The Ultrathin (UT) series of ceramic capacitors is a new product offering from AVX. The UT series was designed to meet the stringent thickness requirements of our customers. AVX developed a new termination process (FCT - Fine Copper Termination) that provides unbeatable flatness and repeatability. The series includes products < 0.35mm in height and is targeted for applications such as Smart cards, Memory modules, High Density SIM cards, Mobile phones, MP3 players, and embedded solutions.

HOW TO ORDER



W → BL Top View Find View Top View





TYPICAL Cu THICKNESS

		<u>*</u> ++
	11	∓ '''
μM	10.0 ± 4.00	l
mil	0.40 ± 0.16	

PART DIMENSIONS

mm (inches)

Thickness	L	W	Т	BL
D	1.00 ± 0.10	0.50 ± 0.10	0.25 ± 0.05	0.27 ± 0.05
	(0.039±0.004)	(0.020 ± 0.004)	(0.010 ± 0.002)	(0.0108 ± 0.002)
E	1.00 ± 0.10	0.50 ± 0.10	0.20 ± 0.05	0.27 ± 0.05
	(0.039±0.004)	(0.020 ± 0.004)	(0.008 ± 0.002)	(0.0108 ± 0.002)
F	1.00 ± 0.10	0.50 ± 0.10	0.125 ± 0.025	0.27 ± 0.05
	(0.039±0.004)	(0.020 ± 0.004)	(0.005 ± 0.001)	(0.0108 ± 0.002)

CAP RANGE (THICKNESS CODE)

X5R	Thickness Code									
ASh			D				E			F
Cap (nF)	6.3V	10V	16V	25V	50V	6.3V	10V	16V	6.3V	10V
1										
10										
22										
33										
47										
68										
100										

X7R	Thickness Code					
A/D		F				
Cap (nF)	6.3V	10V	16V	25V	6.3V	
1						
10						



UltraThin Ceramic Capacitors



UT Series Specifications and Test Methods - Cu Termination

Parameter/Test		Specification Limits	Measuring Conditions		
Operating Temperature Range		-55°C to +85°C	Temperature Cycle Chamber		
Capacitance		Within specified tolerance	Freq.: 1.0 kHz ± 10%		
Dissination	on Factor	≤ 3.0% for ≥ 25V DC rating	Voltage: 1.0Vrms ± .2V		
Diooiputi		\leq 12.5% for \leq 16V DC rating			
Insulation	Resistance	100 ΜΩ - μF	Charge device with rated voltage for 120 ± 5 secs @ room temp/humidity		
Dielectric	Strength	No breakdown or visual defects	Charge device with 300% of rated voltage for 1-5 seconds, with charge and discharge current limited to 50 mA (max)		
	Appearance	No defects	Deflection: 2mm		
Resistance to	Capacitance Variation	≤ ±12%	Test Time: 30 seconds		
Flexure Stresses	Dissipation Factor	Meets Initial Values (As Above)	1mm/sec		
	Insulation Resistance	≥ Initial Value x 0.3	90 mm		
	Appearance	No visual defects			
	Capacitance Variation	≤ ±20%	Charge device with 1.5X rated voltage in test chamber set at 85°C ± 2°C for 1000 hours (+48, -0)		
Load Life	Dissipation Factor	≤ Initial Value x 2.0 (As Above)			
	Insulation Resistance	≥ Initial Value x 0.3 (As Above)	Remove from test chamber and stabilize at room temperature for 24 ± 2 hours		
	Dielectric Strength	Meets Initial Values (As Above)	before measuring.		

UltraThin Ceramic Capacitors



UT Series Specifications and Test Methods - Sn Termination

Parameter/Test		Specification Limits	Measuring Conditions		
	perature Range	-55°C to +85°C	Temperature Cycle Chamber		
Capac	itance	Within specified tolerance	Freq.: 1.0 kHz ± 10%		
Dissipation Factor		≤ 3.0% for ≥ 25V DC rating	Voltage: 1.0Vrms ± 0.2V		
		≤ 12.5% for ≤ 16V DC rating			
Insulation	Resistance	100 ΜΩ - μF	Charge device with rated voltage for 120 ± 5 secs @ room temp/humidity		
Dielectric Strength		No breakdown or visual defects	Charge device with 300% of rated voltage for 1-5 seconds, with charge and discharge current limited to 50 mA (max)		
	Appearance	No defects	Deflection: 2mm		
Resistance to	Capacitance Variation	≤ ±12%	Test Time: 30 seconds		
Flexure Stresses	Dissipation Factor	Meets Initial Values (As Above)			
	Insulation Resistance	≥ Initial Value x 0.3	90 mm —		
Solde	rability	≥ 95% of each terminal should be covered with fresh solder	Dip device in eutectic solder at 245 ± 5°C for 5.0 ± 0.5 seconds		
	Appearance	No defects, <25% leaching of either end terminal			
	Capacitance Variation	≤ ±7.5%	- Dip device in eutectic solder at 260°C for		
Resistance to	Dissipation Factor	Meets Initial Values (As Above) seconds. Store at room temperature			
Solder Heat	Insulation Resistance	Meets Initial Values (As Above)	hours before measuring electrical properties.		
	Dielectric Strength	Meets Initial Values (As Above)			
	Appearance	No visual defects			
	Capacitance Variation	≤ ±12%	Charge device with 1.5X rated voltage in test chamber set at		
Load Life	Dissipation Factor	≤ Initial Value x 2.0 (As Above)	85°C ± 2°C for 1000 hours (+48, -0)		
	Insulation Resistance	≥ Initial Value x 0.3 (As Above)	Remove from test chamber and stabilize at room temperature for 24 ± 2 hours		
	Dielectric Strength	Meets Initial Values (As Above)	before measuring.		
Load Humidity	Appearance	No visual defects	Store in a test chamber set at 85°C ± 2°C/		
	Capacitance Variation	≤ ±12%	Store in a test chamber set at 85°C \pm 2°C/85% \pm 5% relative humidity for 1000 hours (+48, -0) with rated voltage applied.		
	Dissipation Factor	≤ Initial Value x 2.0 (As Above)	Remove from chamber and stabilize at		
	Insulation Resistance	≥ Initial Value x 0.3 (As Above)	room temperature and humidity for 24 ± 2 hours before measuring.		
	Dielectric Strength	Meets Initial Values (As Above)	27 1 2 Hours before measuring.		

单击下面可查看定价,库存,交付和生命周期等信息

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