

Axial Leaded, Epoxy Coated, Multilayer Ceramic Capacitors

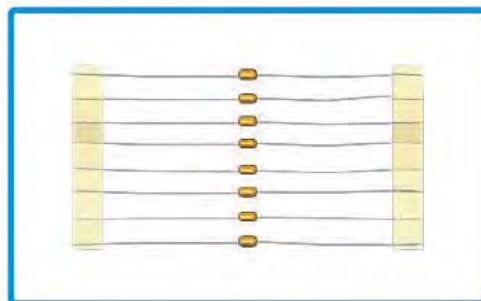


AD Series

MERITEK

Feature

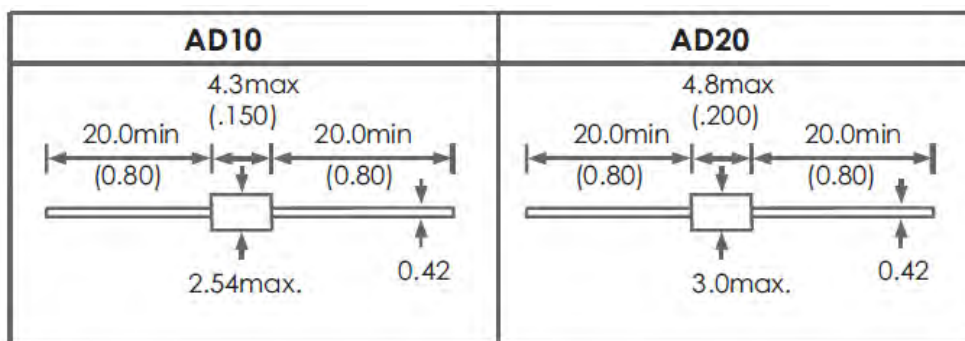
- Miniature size, wide capacitance, tape and reel available for auto-placement.
- Coating by epoxy resin, creates the excellent humidity resistance and prevents body from damaging during soldering and washing.
- Industry standard sizes and various lead spacing available.



PART NUMBERING SYSTEM

	AD	10	CG	104	Z	500	AR
Meritek Series							
Size 10 (.15") / 20 (.2")							
Dielectric							
CODE	CG	XR	YV				
	NPO	X7R	Y5V				
Capacitance Code							
CODE	101	104	223				
(pF)	100	100000	22000				
(μF)	---	0.1	0.022				
Tolerance							
CODE	J	K	M	Z			
	±5%	±10%	±20%	+80% to -20%			
Rated Voltage							
CODE	500	101	201				
	50V	100V	200V				
Packaging							
CODE	AR	BR					
	Axial Tape & Reel	Axial Tape & Box					

Dimension



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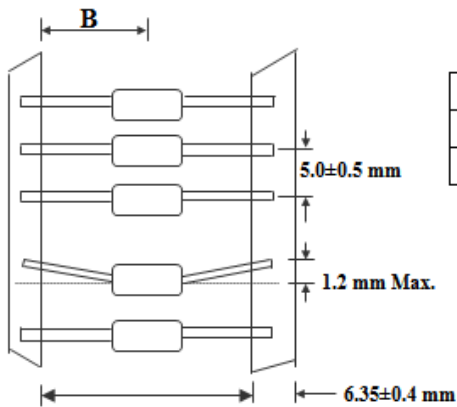
AD Series

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Electrical Characteristics

	NPO	X7R	Y5V
Temperature Characteristic	$0 \pm 30 \text{ PPM/}^{\circ}\text{C}$, $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$	$\Delta C \pm 15\%$, $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$	$\Delta C -80\% \sim +30\%$, $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Operating Temperature Range	-55°C to $+125^{\circ}\text{C}$	-55°C to $+125^{\circ}\text{C}$	-25°C to $+85^{\circ}\text{C}$
Measuring Conditions for Capacitance and D.F.	1 MHz, 1 Vrms	1 KHz, 1 Vrms	1 KHz, 0.5 Vrms
Dissipation Factor (D.F.)	0.1% Max.	2.5% Max.	3.0% Max.
Insulation Resistance	100G Ω	10G Ω	10G Ω
Dielectric Withstanding Voltage	3 X Rated Voltage	2.5 x Rated Voltage	2.5 x Rated Voltage

Package



Lead Style	A	B
Tape Width	$26 \pm 1.5 \text{ mm}$	$13 \pm 0.76 \text{ mm}$
Tape Width	$52.4 \pm 1.5 \text{ mm}$	$26.2 \pm 0.76 \text{ mm}$

