

Bar Cap[®]

Single Layer Capacitor



Description

Multiple Decoupling/Blocking Capacitors in a Single Array.

- Operating frequency up to 30GHz
- Wire Bondable:
100μ" Au with a Ni Barrier Layer
- Customized solutions available

Applications

- DC Blocking
- RF Bypassing
- Decoupling
- GaAs IC's

Benefits

- Single insertion reduces complexity and cost
- Gold metallization for wire bonding
- Reduce bond wires for improved performance

Test Level Codes

Commercial Level

Y	1% AQL 2-Side Visual
X	100% 4-Side Visual 1% AQL Electrical (CAP/DF/IR & DWV)

High Reliability

A	MIL-PRF-49464 Group A	B	MIL-PRF-49464 Group B
	• 100% Thermal Shock • 100% Voltage Conditioning • 100% Electrical (CAP/DF/IR & DWV) • 100% 6-Side Visual • Bond Strength • Die Shear • Temperature Coefficient		• MIL-PRF-49464 Group A • Immersion • Low Voltage Humidity • Life
		D	• Customer Defined
		E	• 6-Side Visual

Tolerance

Code	Description
Z	+80%, -20%

Voltage

Code	Voltage
2	25 Volts
5	50 Volts
1	100 Volts

Part Number Identification

E	40	BU	151	Z	1	P	X	4	
Product E = Bar Capacitors	Case Size 20 25 30 40	Material See material tables.	Capacitance (pF) 800 = 80pF 101 = 100pF 121 = 120pF 151 = 150pF Consult an inside sales rep. for custom solutions.	Tolerance Z = +80% -20%	Voltage 2 = 25V 5 = 50V	Termination P = Ni / Au M = Au	Test Level Y or X See test level definitions.	Capacitor Quantity In mils 3 4 6 Etc.	Packaging D = Black Dotted E = Repopulated T = Tape and Reel Leave blank for generic waffle pack.



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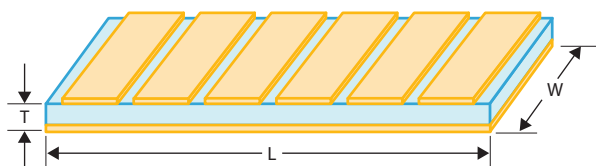
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Dimensions

Case Style	No. of Caps	Dimensions			
		Width	Length	Thickness	Pad Size
E20	3	0.020" $\pm$ 0.003" (0.508mm $\pm$ 0.076mm)	0.065" $\pm$ 0.005" (1.651mm $\pm$ 0.127mm)	See below	0.020" $\pm$ 0.015" (0.508mm $\pm$ 0.381mm)
	4		0.085" $\pm$ 0.005" (2.159mm $\pm$ 0.127mm)		
	6		0.125" $\pm$ 0.005" (3.175mm $\pm$ 0.127mm)		
E25	3	0.025" $\pm$ 0.003" (0.635mm $\pm$ 0.076mm)	0.065" $\pm$ 0.005" (1.651mm $\pm$ 0.127mm)	See below	0.025" $\pm$ 0.015" (0.635mm $\pm$ 0.381mm)
	4		0.085" $\pm$ 0.005" (2.159mm $\pm$ 0.127mm)		
	6		0.125" $\pm$ 0.005" (3.175mm $\pm$ 0.127mm)		
E30	3	0.030" $\pm$ 0.003" (0.762mm $\pm$ 0.076mm)	0.065" $\pm$ 0.005" (1.651mm $\pm$ 0.127mm)	See below	0.030" $\pm$ 0.015" (0.762mm $\pm$ 0.381mm)
	4		0.085" $\pm$ 0.005" (2.159mm $\pm$ 0.127mm)		
	6		0.125" $\pm$ 0.005" (3.175mm $\pm$ 0.127mm)		
E40	3	0.040" $\pm$ 0.003" (1.016mm $\pm$ 0.076mm)	0.065" $\pm$ 0.005" (1.651mm $\pm$ 0.127mm)	See below	0.040" $\pm$ 0.015" (1.016mm $\pm$ 0.381mm)
	4		0.085" $\pm$ 0.005" (2.159mm $\pm$ 0.127mm)		
	6		0.125" $\pm$ 0.005" (3.175mm $\pm$ 0.127mm)		



Type	Voltage	Thickness
BU	100V	0.007" $\pm$ 0.001" (0.178mm $\pm$ 0.025mm)
UX	25V	0.006" $\pm$ 0.001" (0.152mm $\pm$ 0.025mm)
	50V	0.010" $\pm$ 0.001" (0.254mm $\pm$ 0.025mm)

Bar Cap Capacitance Table

Part Number	No. of Caps	Value/Cap (pF) BU 100V	Value/Cap (pF) UX 50V	Value/Cap (pF) UX 25V
E20	3	80		340
	4			
	6			
E25	3	100	270	420
	4			
	6			
E30	3	120	320	500
	4			
	6			
E40	3	150	430	690
	4			
	6			