

Bar Cap[®] Single Layer Capacitor



Description

Multiple Decoupling/Blocking Capacitors in a Single Array.

- Operating frequency up to 30GHz
- Wire Bondable
100 μ " 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 <ul style="list-style-type: none"> • 100% Thermal Shock • 100% Voltage Conditioning • 100% Electrical (CAP/DF/IR & DWV) • 100% 6-Side Visual • Bond Strength • Die Shear • Temperature Coefficient 	B	MIL-PRF-49464 Group B <ul style="list-style-type: none"> • 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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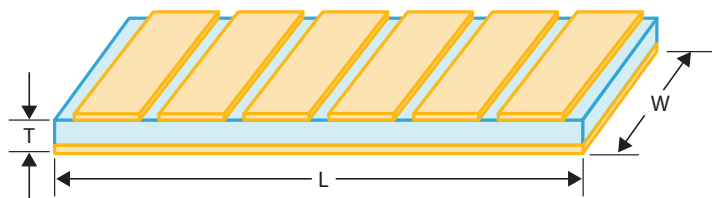
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Dimensions

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



Thickness

BU: (100V) 0.007" ± 0.001" (0.178mm ±0.025mm)
UX: (25V) 0.006" ± 0.001" (0.152mm ±0.025mm)
 (50V) 0.010" ±0.001" (0.254mm ±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			