

Microwave SLCs



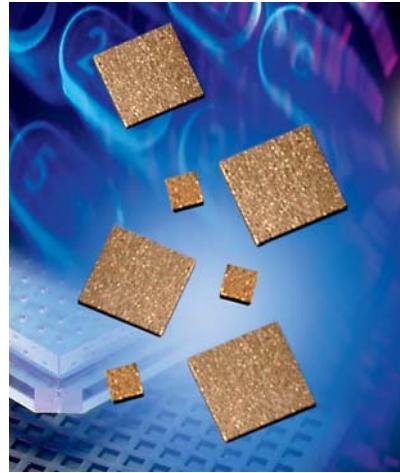
ULTRA MAXI Series

The Ultra Maxi Series is the latest addition to the AVX family of proprietary high k , inter-granular barrier layer dielectric systems. This series is similar to our Maxi and Maxi+ product offerings, but with the notable difference that the dielectric constant has been increased to 60,000 – double the previous high for our industry leading GBBL formulations.

These new Single Layer Ceramic Capacitors – available in voltage ratings of 6.3, 16 and 25 VDC – set a new standard for circuit miniaturization. On average, the required board mounting area will be reduced by approximately two-thirds when compared to an equivalent capacitance value in our Maxi+ series. The Ultra Maxi Series offers an ideal solution for broadband bypass applications where high performance and the smallest footprint are the primary considerations.

The Ultra Maxi Series is RoHS compliant – as are all AVX SLC products. Terminations (Au over Ti/W) provide an excellent wire bonding surface and are compatible with conductive epoxy or Au/Sn eutectic solder attach.

Samples and custom configurations are available on request.



Style	Length x Width millimeters (inches)	Capacitance (pF)		
		6.3 VDC	16 VDC	25 VDC
GD10	.254 x .254 (.010 x .010)	300	220	180
GD15	.381 x .381 (.015 x .015)	650	500	400
GD20	.508 x .508 (.020 x .020)	1200	900	740
GD25	.635 x .635 (.025 x .025)	1800	1400	1200
GD30	.762 x .762 (.030 x .030)	2700	2000	1600
GD35	.889 x .889 (.035 x .035)	3600	2700	2200
GD40	1.016 x 1.016 (.040 x .040)	4800	3700	3000
GD45	1.143 x 1.143 (.045 x .045)	6000	4600	3800
GD50	1.270 x 1.270 (.050 x .050)	7500	5700	4700
GD55	1.397 x 1.397 (.055 x .055)	10000	7500	6200
Thickness:		.102 - .140 (.0040 - .0055)		.127 - .152 (.005 - .006)
L & W Tolerance:			±.051 (±.002)	

ELECTRICAL CHARACTERISTICS

Dielectric Withstanding Voltage: 2.5 x Rated Voltage

IR @ Rated Voltage @ 25°C: 10,000 Megohms

IR @ Rated Voltage @ 125°C: 500 Megohms

Dissipation Factor @ 1 KHz: 2.5% Max

Temperature Coefficient: ±15% from -55° to +125°C

NOTE: All GD styles packaged 400 pieces per
except GD15 which is packaged 484 per

HOW TO ORDER

GD	25	6	0	182	Z	A	W
Style	L/W (mils)	Voltage 6.3V = 6 16V = Y 25V = 3	Dielectric 0 = Ultra Maxi	Capacitance Code (pF)	Capacitance Tolerance M = ±20% Z = +80%,-20%	Termination (Sputtered) Au (100 μ -in) over Ti/W (1000 \AA)	Packaging Code Antistatic Waffle Pack

