

Planar Array

Feed-Through Capacitors



Quantic™ UTC Planar Capacitor Arrays are reliable for continuous operation at the rated voltage and operating temperatures specified by the MIL-STD. The operating temperature range is -55°C to +125°C at the rated voltage.

Quantic™ UTC can produce any of the standard filters in rectangular, circular, or shaped arrangements. We can build in accordance with the following specifications: MIL-STD-1651, 1560A, 1669, 1554, MIL-STD C 24308 Sub "D," and MIL V 83723 Micro-Style array arrangements.

Application: Electromagnetic interference (EMI) can affect the operation of electronic equipment through connectors attached to interface cables. Filter arrays are designed to reduce EMI by acting as low-pass filters that restrict high-frequency signals at the cable connector.

Planar Arrays

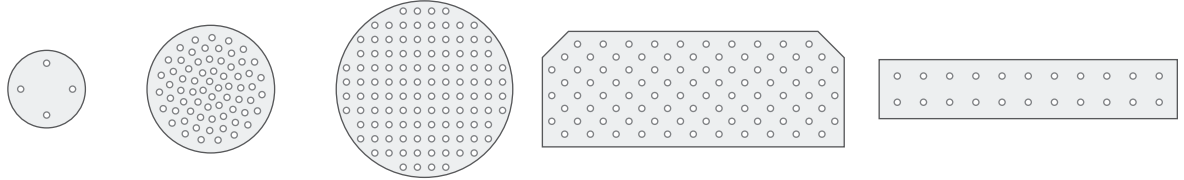
- Designed to meet or exceed all the requirements of MIL-PRF-15733 and MIL-PRF-28861
- Compact size enables efficient use of space on printed circuit boards (PCBs)
- Allow for integration with other passive components into a single package or layout
- Exhibit consistent electrical characteristics across components within the array
- Mitigate noise
- Reduce EMI by acting as a low-pass filter restricting high-frequency currents at the connector
- Temperature range: -55°C to +125°C
- Voltage range: 25V–2000V
- Capacitance range: 100pF–μF
- Size: Custom and Standard: circular, Sub D, and ARINC
- Dielectric NPO, X7R
- RoHS compliant

Quantic™ UTC

Quantic™ UTC is a global capacitor provider manufacturing multilayer ceramic capacitors (MLCCs) and leaded devices for use in defense, aerospace, computer, telecommunications, industrial and various high reliability applications. Our offerings include surface mount (SMT) multi-layer ceramic chips capacitors in both custom and EIA standard sizes; switch mode power supply (SMPS) capacitors in accordance with MIL-PRF-49470 and DSCC/DLA 87106, 88011 drawings and customer source controlled drawings (SCDs); SMT high voltage MLCC; radial leaded high voltage capacitors; SMD large body size MLCC; discoidal capacitors; discoidal arrays; and custom molded case radial parts.

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Type of Contact and Pin Layout Arrangements



Style	I	II	III	IV	V
Type	Circular	Circular	Circular	ARINC	Sub D
Contacts	4	41	128	9-78	106
Contact Size	#20	#20	#22	0.043-0.053	#20

Examples of the various arrangements that are possible. Quantic™ UTC provides custom designs to meet your unique array needs. Contact the factory with your specific request.

Part Ordering

A

Array

R

Working Voltage

12

Shell Size

34

Number of Contacts

X7R

Dielectric

103

Capacitance Code

M

Tolerance

P

Termination

Voltage

L	25V
G	50V
B	100V
R	200V
H	250V
S	500V
K	630V
T	1000V
W	2000V
X	3000V

Shell Size

Circular	Rectangular	Sub-D
MIL-STD-1560	AR-010 to AR-150	Full Size
MIL-STD-1554		Mini-D
MIL-STD-1669		Micro-D
MIL-STD-1651		Nano-D
MIL-STD-1698		Power-D
MIL-STD-33702		

Dielectric

X7R
NPO

Capacitance

R05	0.05pF
0R2	0.20pF
1R0	1.0pF
2R7	2.7pF
270	27pF
271	270pF
103	10000pF

Tolerance

J	[+/-] 5%
K	[+/-] 10%
M	[+/-] 20%
V	[+/-] GMV
Z	+80% / -20%
P	+100% / -0%
S	-0% / +30%

Termination

P	Platinum Silver
G	Gold Over Nickel

Packaging

T	Packaging Tray
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