Evans GROUP
UTC

› For more information contact
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Feed-Through Capacitors

Planar Array

Features

- 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)
- Allows for integration with other passive components into a single package or layout
- Exhibits consistent electrical characteristics across components within the array
- Mitigates noise
- Reduces 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

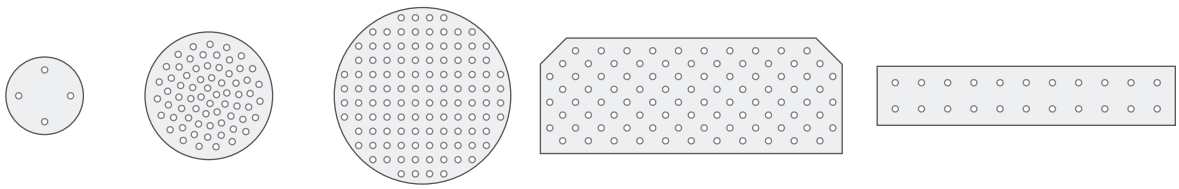
Product Overview

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.

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.

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.

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Part Ordering

A	R	12			34	X7R	103	M	P	T
Array	Working Voltage	Shell Size			Number of Contacts	Dialectric	Capacitance Code	Tolerance	Termination	Packaging
	L= 25V G= 50V B= 100V R= 200V H= 250V S= 500V K= 630V T= 1000V W= 2000V X= 3000V	Circular	Rectangular	Sub-D	A	X7R NPO	R05= 0.05pF 0R2= 0.20pF 1R0= 1.0pF 2R7= 2.7pF 270= 27pF 271= 270pF 103= 10000pF	J= (+/-) 5% K= (+/-) 10% M= (+/-) 20% V= (+/-) GMV Z= +80% / -20% P= +100% / -0% S= -0% / +30%	P= Platinum Silver G= Gold Over Nickel	T= Packaging Tray
		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								

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