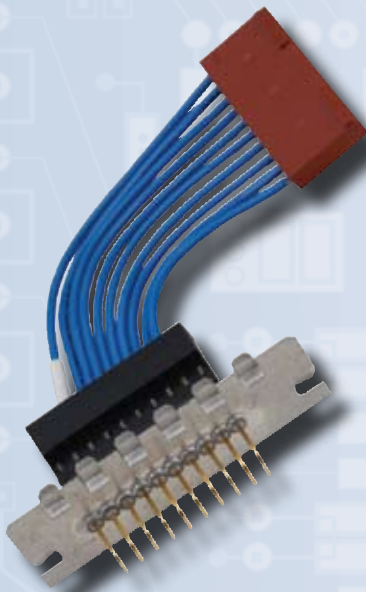


TUSONIX

A Subsidiary of **CTS** Electronic Components

EMI / RFI FILTER & CAPACITOR PRODUCTS

- **Coaxial Broadband EMI/RFI Filters**
- **EMI/RFI Surface Mount Filters**
- **EMI/RFI Filter and Capacitor Assemblies**
- **Filtered Terminal Blocks**
- **Ceramic Trimmer Capacitors**
- **Ceramic Coaxial Resonators**
- **EMI/RFI Filters—High Frequency, Low Pass**



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Coaxial Broadband EMI/RFI Filters

Design Features:

- High Capacitance Values
- Coaxial Design
- Resin & Hermetic Seals
- Available to MIL-PRF-15733
- Versatile Design

- C Filter
- L Filter

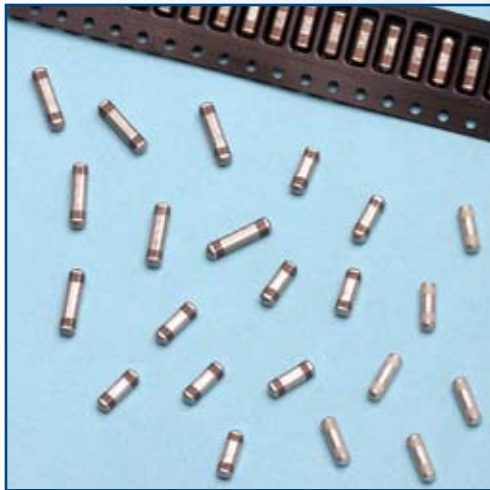
Specification Ranges:

- Capacitance Range up to 1.4 μ F
- Max Torque: 9 in-lbs (1.04 Nm)
- DC Resistance: 0.01 Ohms Max
- WVDC up to 280 at 125°C
- Insertion Loss: Up to 70 dB at 1 GHz
- 4601 Series—Seal Tested per MIL-STD-202, Method 112, Condition A



Used in: Power Supplies, Power Inputs & Outputs, Industrial Controls, Telecommunications Equipment

EMI/RFI Surface Mount Filters



Design Features:

- Excellent Performance
- Easy Placement
- Excellent Solderability
- Square or Round Body for Easy Handling
- Tape and Reeled for Auto-placement

Specification Ranges:

- 100 VDC up to 125°C
- Dielectric Withstanding: 300 VDC
- 4700/4701 DC Rating: 10 AMPS
- 4702 DC Rating: 20 AMPS
- Capacitance: 100 pF to 5,000 pF
- Tolerance GMV or +80%/-20%
- Insertion Loss: 70 dB up to 1 GHz

- Pi Filter
- C Filter

EMI/RFI Filter & Capacitor Assemblies

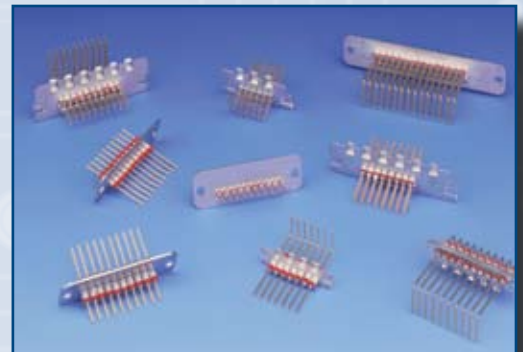
Design Features:

- Standard and Custom Designs
- Saves Time & Labor
- Filter Performance Can Be Programmed per Position

Specification Ranges:

- Operating Temperature: -55°C to 125°C
- Capacitance Values up to 10,000 pF
- Working Voltage at 125°C: 100 VDC
- Current: 10-15 AMPS
- No-Load Insertion Loss: 70 dB up to 10 GHz
- Capacitor/Filter Pins Come With Various Lead Lengths and Configurations

- Pi Filters
- C Filters



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See the complete list of available products and specifications at:

www.ctscorp.com/components/

Filtered Terminal Blocks



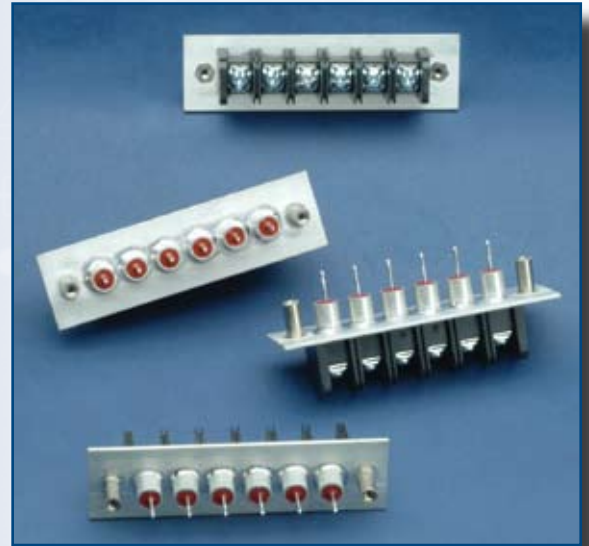
- Pi Filter
- C Filter

Design Features:

- Filter Integral to Block
- Industry Standard Block
- Wide Range of Performance
- Customization Possible
- UL Recognized Terminal Blocks & Filters

Specification Ranges:

- 2-8 Terminals Available
- Operating Temperature: -55°C to 105°C
- Working Voltage: Up to 250 VAC
- Capacitance: Up to 15 nF
- DC Resistance: 0.01 Ohms Max
- Wire Sizes to #12 AWG
- Screw Size #6-32 or #8-32 Head Screw
- Insertion Loss: 65 dB up to 10 GHz



Ceramic Trimmer Capacitors



Common Applications:

- Avionics
- Communications Equipment
- Instrumentation

Design Features:

- Small Size
- Exceptionally Smooth Tuning
- Rugged Construction
- Ideal for Point-to-Point or PCB Applications

Specification Ranges:

- Operating Temperature: -55°C to 125°C
- Capacitance Range of 1-3 pF Max to 10-60 pF Max
- Working Voltage: 25-200 VDC
- Dielectric Strength: 50-500 VDC
- Diameter: 0.196 in to 0.375 in [4.98 to 9.52mm]
- Torque From 0.3 in-oz to 6 in-oz (0.035 to 0.693 Nm)

Ceramic Coaxial Resonators

Specification Ranges:

- Sizes: 2, 3, 4, 6, 8, 12mm
- Dielectric constant:
 - Min: 9
 - Max: 90
- Electrodes:
 - High Density, Fired on Silver
 - Available with Tin Plating over Nickel Barrier Finish
- Frequency Range: 250 MHz — 6 GHz*

*Higher frequencies available by special order



See the complete list of available products and specifications at:

www.ctscorp.com/components/

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EMI/RFI Filters—High Frequency, Low Pass

Design Features:

- Small Size
- High Performance
- Competitively Priced
- Wide Range of Products
- Saves Bulkhead Space
- Eliminates EMI
- Reduced Cost
- Ease in Selection

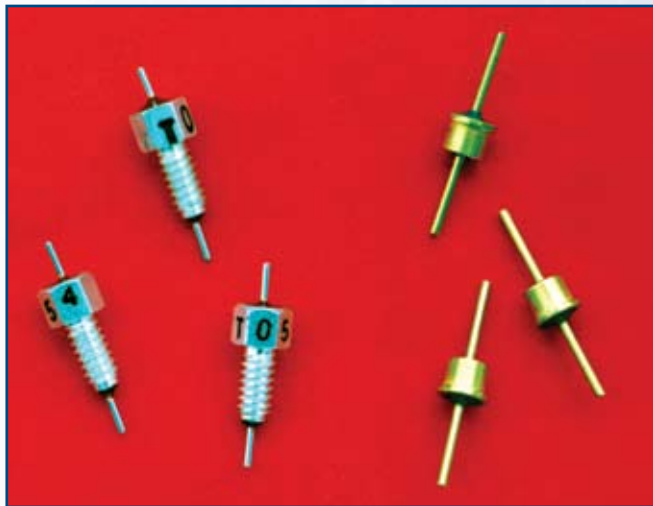


Specification Ranges:

- Insertion Loss from 1 MHz to 10 GHz
- Operating Temperature: -55°C to +125°C
- Capacitance Values up to 100,000 pF
- Cap. Tolerance (+100%, -0%) (+80%, -20%), or Customer Specific
- Working Voltage: 50-2,000 VDC
- Current: 5-25 AMPS
- Suggested Mounting Torque from 2 in-lbs to 9 in-lbs (0.231 to 1.04 Nm)
- Hex Nut 0.125 in. - 0.500 in Across the Flats
- Max. Solder Temperature 500°F (260°C)

Common Applications:

- Telecommunications
- CATV
- Telemetry
- Radar
- Amplifiers
- RF Switches



See the complete list of available products and specifications at: www.ctscorp.com/components/

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