



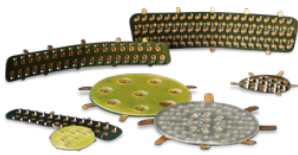
www.4emi.com

EMI Solutions Inc.

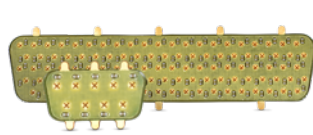
Headquartered in our expanded facility in Irvine, California, our company was established in 1996 based on the development of our FlexFilter inserts for EMI filtering. Over the years, EMI Solutions has steadily grown by diversifying our product offering to meet our customer's needs.

Flexfilter Inserts

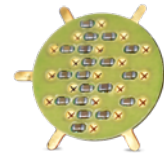
MIL-CIRCULAR



D-SUB



ARINC



Meets requirements for:

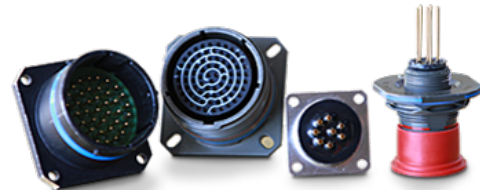
DO-160

MIL-STD 461

MIL-STD 810G

- ♦ Quick turn
- ♦ Cost effective
- ♦ High Reliability
- ♦ Simple installation - configured to your existing connector
- ♦ Suited for High Voltage and Severe Environments
- ♦ Select Components (Caps, Resistors, Diodes and more) on a pin by pin basis

Filtered MIL-Circular Connectors



Designs for all Mil-Circular Connectors including:

D38999

M26462

M5015

Pi Filters

- ♦ Highest Performance with minimal resonance Insertion Loss of 70 – 80 dB
- ♦ Limited number of available capacitances and variations

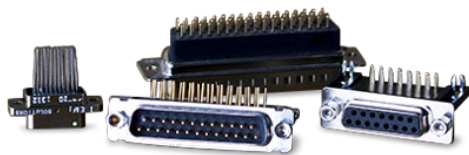
Planar Arrays or Discoidal Capacitors

- ♦ Very good broadband performance
- ♦ Insertion loss of 50 – 60 dB
- ♦ Can be combined with Inductors (L) for improved performance

Chip Capacitor

- ♦ Good for "notch" type filtering
- ♦ Reduced higher frequency performance due to chip cap resonance
- ♦ Insertion Loss of 40 - 45 dB
- ♦ Wide variety of capacitances and variations available

Filtered D-Sub Connectors



Designs for all Mil Spec D-Sub Connectors:

MIL-24308

MIL-83513

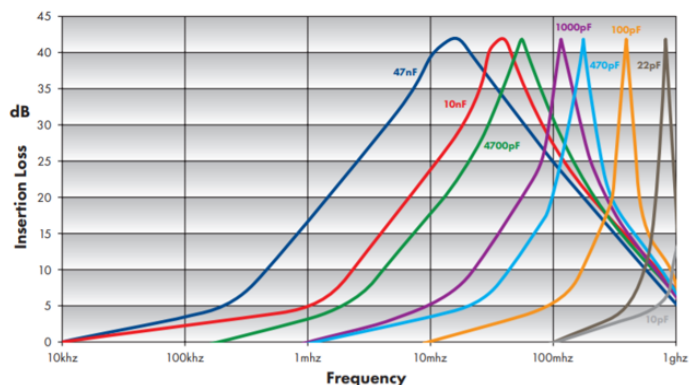
C & Pi Filters

- ◆ Highest Filter Performance with Minimal Resonance
- ◆ Insertion Loss of 70 - 80 dB
- ◆ Limited number of available capacitances and variations

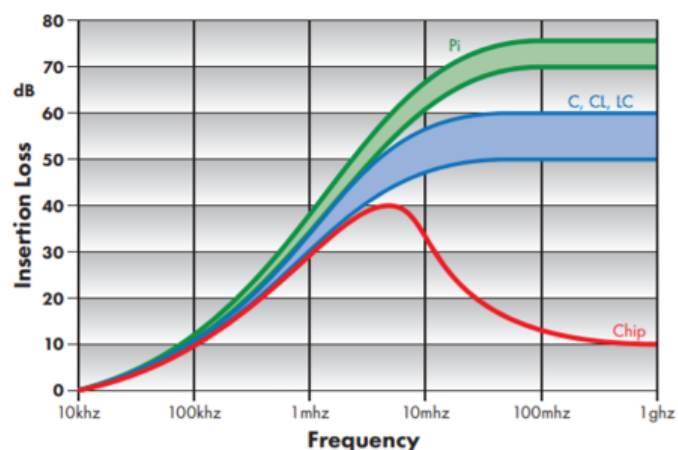
Chip Capacitor

- ◆ Good for "notch" type filtering
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- ◆ Insertion Loss of 40 - 45 dB
- ◆ Wide variety of capacitances and variations available

Chip Capacitor Filter Performance



Filtered Connector Performance



	Capacitance Options	Filter Performance
Pi with Planar Arrays	100 pF – 1 uF+	70+ dB
Pi Tubes	47 pF – 12,000 pF	70+ dB
Discoidal Capacitor (C)	470 pF – 40,000 pF+	50 – 60 dB
Planar Array (CL & LC)	100 pF – 1 uF+	50 – 60 dB
Chip Capacitor	3 pF – 47,000 pF+	>40 dB



PI FILTERING

- Built with Pi Tubes, Discoidal or Planar Arrays
- Provides C-L-C Component Configuration
- Highest Performance: 70+ dB Insertion Loss
- Very Good High Frequency Performance

C, C-L OR L-C FILTERING

- Built with Chip Caps, Discoidals, Planars or C Tubes
- 45 - 60 dB Insertion Loss
- Good Broad Spectrum Filter Performance

CHIP CAPACITOR FILTERING

- 40+ dB Insertion Loss
- Quick Turn
- Lowest Cost Option
- Limited High Frequency Performance

Termination Options



Feed Thru Filters

- ◆ Solder in, Screw in, or Press in versions
- ◆ Ideal for RF Applications
- ◆ Circuit types: C, CL, LC, Pi
- ◆ Typical Capacitance: 1.0pF to 20,000+ pF
- ◆ Operating Temp: -55°C - +125°C
- ◆ Hermetic Seal option
- ◆ Various sizes and threads
- ◆ High Working Voltage Rating: 50-500V typical
- ◆ Custom versions available

