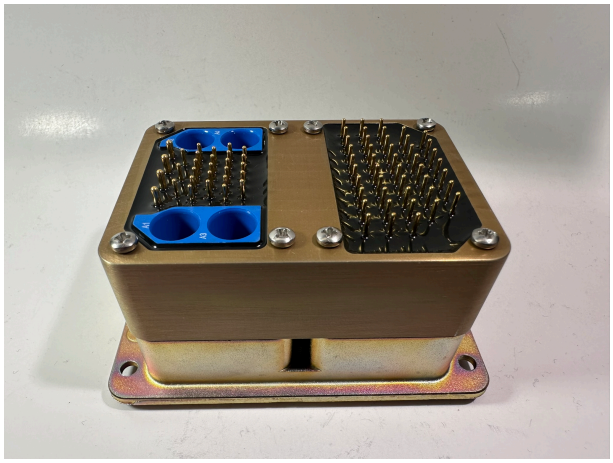
# MobiX Labs

## EMI Solutions

## Filtered ARINC Connectors



Designs for all ARINC Connectors including:

- **404 series**
- **600 series**

## Filtering Options:

### Pi Filters - Planar Arrays or Pi Tubes

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

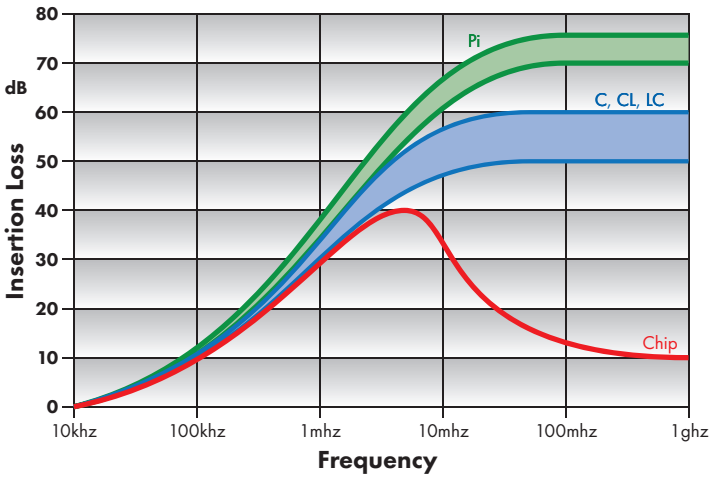
### C Filters - Planar Arrays or Discoidals

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

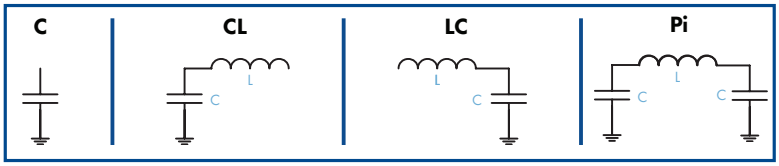
### C Filters - Chip Capacitors

- 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 ARINC 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 |




## ENGINEERING SUPPORT: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