



# Praetorian<sup>®</sup> 4-Channel EMI Filter Array with ESD Protection

# CM1453-04CP

### Features

- Four channels of EMI filtering
- ±15kV ESD protection
- (IEC 61000-4-2, contact discharge)
- ±30kV ESD protection (HBM)
- Greater than -40dB of attenuation at 1GHz
- Chip Scale Package (CSP) with 0.40mm pitch and 0.25mm CSP solder ball which features extremely low parasitic inductance for optimum filter and ESD performance
- OptiGuard

#### **Electrical Schematic**

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## **Performance Information**

Typical Filter Performance (nominal conditions unless specified otherwise, 50 Ohm Environment)

Sail log MAG	5 dR/BEE 0 dR	1 8338d8
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#### Figure 1. Insertion Loss VS. Frequency (CM1453-04: Filter 1)

0 dB 282 1 100 MAD 5 28/ F8F 2 08 31-,8864 88

Figure 2. Insertion Loss VS. Frequency (CM1453-04: Filter 2)

# Performance Information (cont'd)

**Typical Filter Performance (nominal conditions** 

## Performance Information (cont'd)

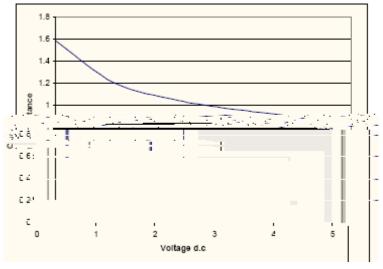


Figure 5. Typical Diode Capacitance vs. Input Voltage (normalized to 2.5V d.c)

### **Application Information**

Refer to Application Note AP-217, "The Chip Scale Package", for a detailed description of Chip Scale Packages offered by California Micro Devices. See <a href="http://www.wlcspforum.org/documents/pdf/ap-217.pdf">http://www.wlcspforum.org/documents/pdf/ap-217.pdf</a> for download.

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