

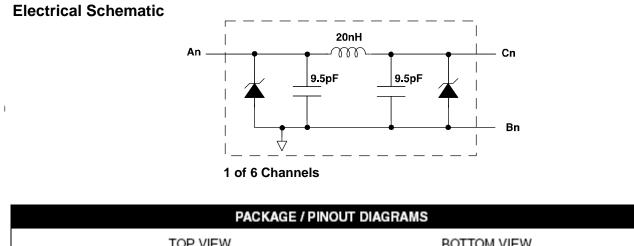


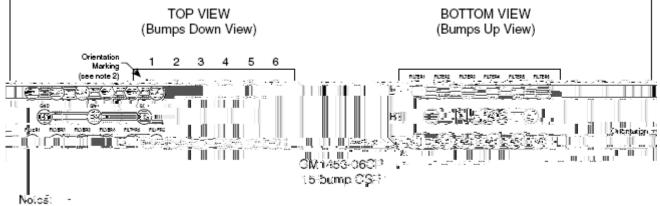
Praetorian[®] 6-Channel EMI Filter Array with ESD Protection

CM1453-06CP

Features

- Six 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





1) Those drawings are not to seale.

PIN DESCRIPTIONS					
PIN NUMBER	PIN DESCRIPTION	PIN NUMBER	PIN DESCRIPTION		
A1	Filter #1	C1	Filter #1		
A2	Filter #2	C2	Filter #2		
A3	Filter #3	C3	Filter #3		
A4	Filter #4	C4	Filter #4		
A5	Filter #5	C5	Filter #5		
A6	Filter #6	C6	Filter #6		
B1	GND	-			
B2	GND	-			
B3	GND	-			

Ordering Information

PART NUMBERING INFORMATION				
		Lead-free Finish		
Bumps	Package	Ordering Part Number ¹	Part Marking	
15	CSP	CM1453-06CP	N536	

Note 1: Parts are shipped in Tape & Reel form unless otherwise specified.

Specifications

ABSOLUTE MAXIMUM RATINGS			
PARAMETER	RATING	UNITS	
Storage Temperature Range	-65 to +150	°C	
DC current per Inductor	30	mA	
DC Package Power Rating	0.5	W	

STANDARD OPERATING CONDITIONS				
PARAMETER	RATING	UNITS		
Operating Temperature Range	-40 to +85	°C		

ELECTRICAL OPERATING CHARACTERISTICS

CM1453-06CP

Performance Information (cont'd)

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

Soli loo MAR E 40/ DEE 0 40 AL - 0445 40

Figure 3. Insertion Loss VS. Frequency (CM1453-06: Filter 3)

0 dB 5211 log MAG 5 dB/ REF 0 dB 1:-.8508 dB

Figure 4. Insertion Loss VS. Frequency (CM1453-06: Filter 4)

Performance Information (cont'd)

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

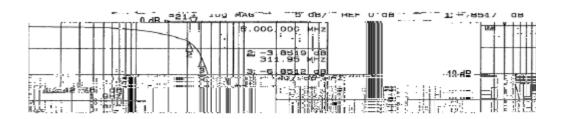


Figure 5. Insertion Loss VS. Frequency (CM1453-06: CSP1 – Filter 5)

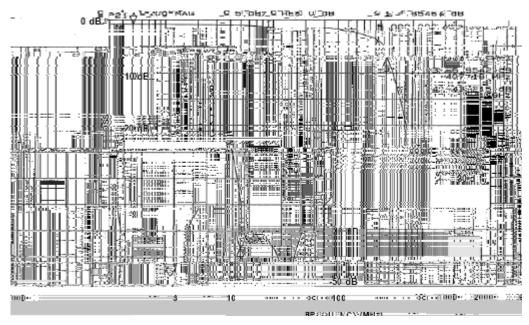


Figure 6. Insertion Loss VS. Frequency (CM1453-06: CSP1 – Filter 6)

Performance Information (cont'd)

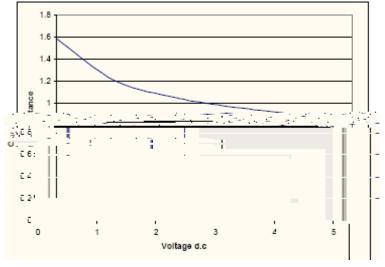


Figure 7. Typical Diode Capacitance vs. Input Voltage (normalized to 2.5V d.c)

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 http://www.wlcspforum.org/documents/pdf/ap-217.pdf for download.

CSP Tape and Reel Specifications

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		POCKET SIZE (mm)	TAPE WIDTH	REEL	QTY PER		
PART NUMBER	CHIP SIZE (mm)	B ₀ X A ₀ X K ₀	w	DIAMETER	REEL	P₀	\mathbf{P}_{1}