# 8-C EMIF A ESD P

# 

**Device** 

**Package** 

**Shipping** 

C

\*See Package/Pinout Diagrams for expanded pin information.

#### **PACKAGE / PINOUT DIAGRAMS**

Top View (Bumps Down View)			Bottom View (Bumps Up View)
		D	
	CM1443-08CP		

#### Table 4. ELECTRICAL OPERATING CHARACTERISTICS (Note 1)

Symbol	Parameter	Conditions	Min	Тур	Max	Units
R	Resistance		80	100	120	Ω
C <sub>T</sub>	Total Capacitance	At 2.5 V DC	14	17	21	pF
C <sub>S</sub>	Single Capacitor	At 2.5 V DC		8.5		pF
TCR	Temperature Coefficient of Resistance			1200		ppm/°C
TCC	Temperature Coefficient of Capacitance	At 2.5 V DC		-300		ppm/°C
V <sub>DIODE</sub>	Diode Voltage (reverse bias)					

#### PERFORMANCE INFORMATION (Cont'd)

Typical Filter Performance ( $T_A = 25^{\circ}C$ , DC Bias = 0 V, 50  $\Omega$  Environment)

So. 100 MAG 5 dB/ DEF 0 dB. . . 41 -5 ... 022 dB

Figure 2. Insertion Loss vs. Frequency (A1-C1 to GND B1)

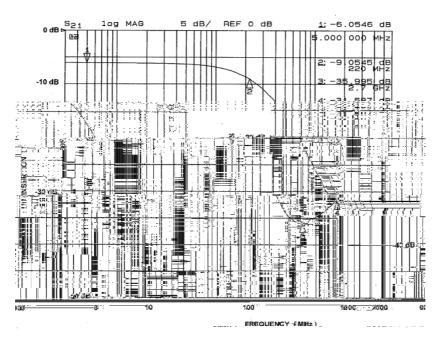


Figure 3. Insertion Loss vs. Frequency (A2-C2 to GND B1)

#### PERFORMANCE INFORMATION (Cont'd)

### Typical Filter Performance ( $T_A = 25^{\circ}C$ , DC Bias = 0 V, 50 $\Omega$ Environment)

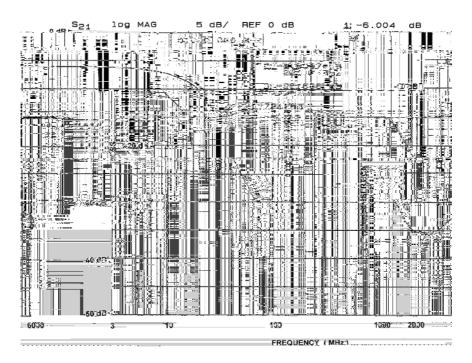


Figure 4. Insertion Loss vs. Frequency (A3-C3 to GND B2)

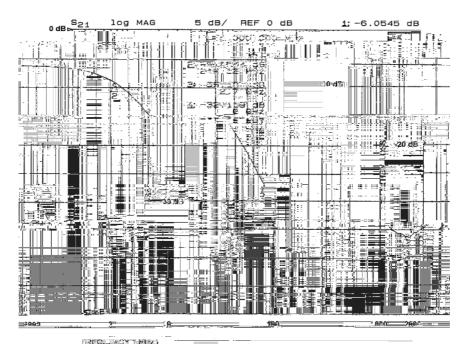


Figure 5. Insertion Loss vs. Frequency (A4-C4 to GND B2)

### PERFORMANCE INFORMATION (Cont'd)

Typical Filter Performance ( $T_A = 25^{\circ}C$ , DC Bias = 0 V, 50  $\Omega$  Environment)

Figure 8. Insertion Loss vs. Frequency (A7-C7 to GND B4)

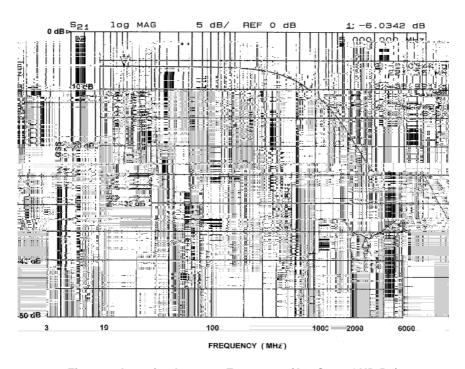


Figure 9. Insertion Loss vs. Frequency (A8-C8 to GND B4)

#### PERFORMANCE INFORMATION (Cont'd)

Typical Filter Performance ( $T_A = 25^{\circ}C$ , DC Bias = 0 V, 50  $\Omega$  Environment)

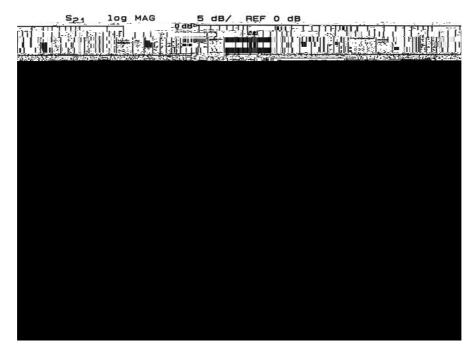


Figure 10. Comparison of Filter Response Curves for CM1443 vs. DC Bias

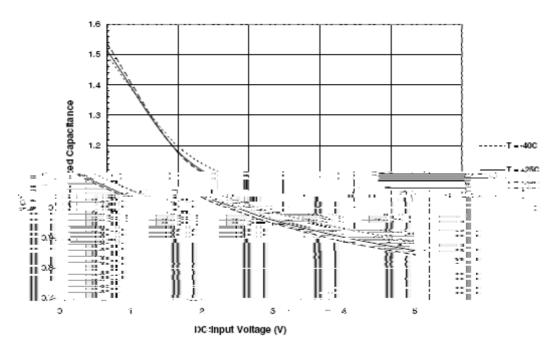


Figure 11. Filter Capacitance vs. Input Voltage over Temperature (normalized to capacitance at 2.5 VDC and 25°C)

#### CASE 567BU-01 ISSUE O

#### DATE 26 JUL 2010



- NOTES:
  1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
  2. CONTROLLING DIMENSION: MILLIMETERS.
  3. COPLANARITY APPLIES TO SPHERICAL

