CM1443-08CP

8-C EMI F A ESD P

Features

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- – – – – –
- ±
  – –
- ±
-
- –
- *OptiGuard*™
- –

Applications

-
- A8)

R = 100 Ω

FILTERn*
(Pins C1−C8)

8.5 pF 8.5 pF

C

GND
(Pins B1−B4)

1 of 8 EMI/RFI + ESD Channels

*See Package/Pinout Diagrams for expanded pin information.

Device	Package	Shipping

s C

PACKAGE / PINOUT DIAGRAMS

Top View
(Bumps Down View)

Bottom View
(Bumps Up View)

CM1443−08CP

Table 4. ELECTRICAL OPERATING CHARACTERISTICS (Note 1)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
R	Resistance		80	100	120	Ω
C_T	Total Capacitance	At 2.5 V DC	14	17	21	pF
C_S	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_{DIODE}	Diode Voltage (reverse bias)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

PERFORMANCE INFORMATION (Cont'd)

Typical Filter Performance (T_A = 25°C, DC Bias = 0 V, 50 Ω Environment)

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

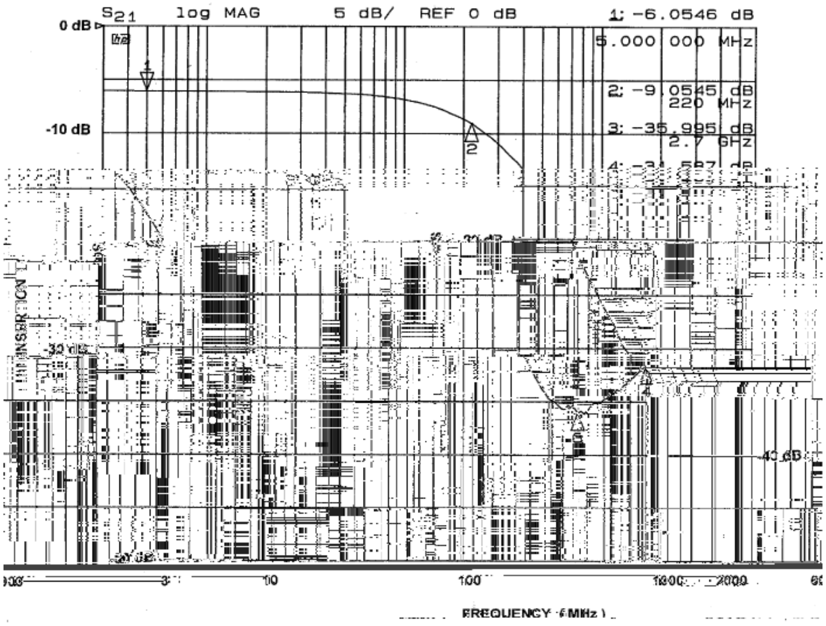

Figure 3. Insertion Loss vs. Frequency (A2−C2 to GND B1)

PERFORMANCE INFORMATION (Cont’d)

Typical Filter Performance (T_A = 25°C, DC Bias = 0 V, 50 Ω Environment)

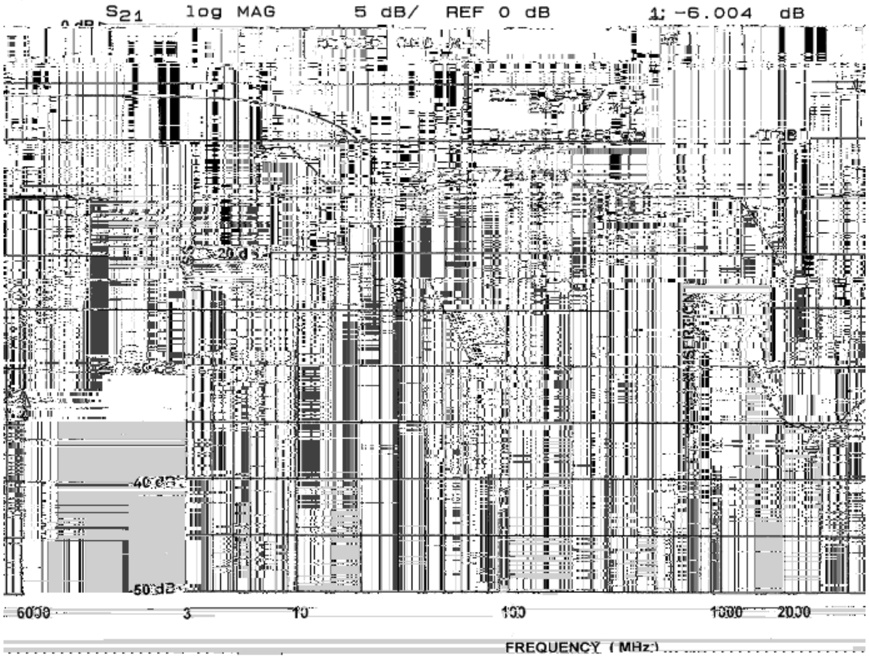

Figure 4. Insertion Loss vs. Frequency (A3−C3 to GND B2)

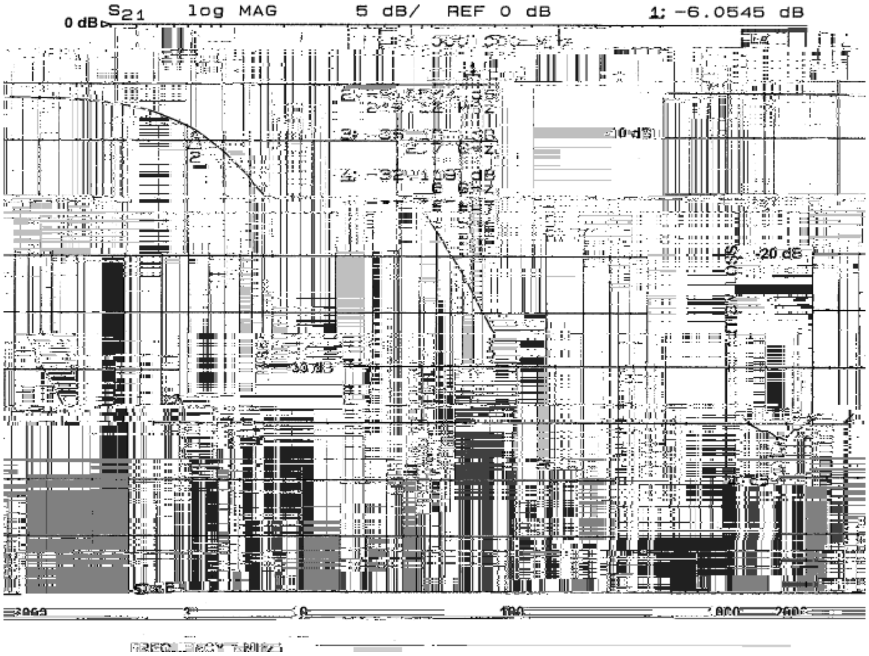

Figure 5. Insertion Loss vs. Frequency (A4−C4 to GND B2)

PERFORMANCE INFORMATION (Cont'd)

Typical Filter Performance (T_A = 25°C, DC Bias = 0 V, 50 Ω Environment)

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

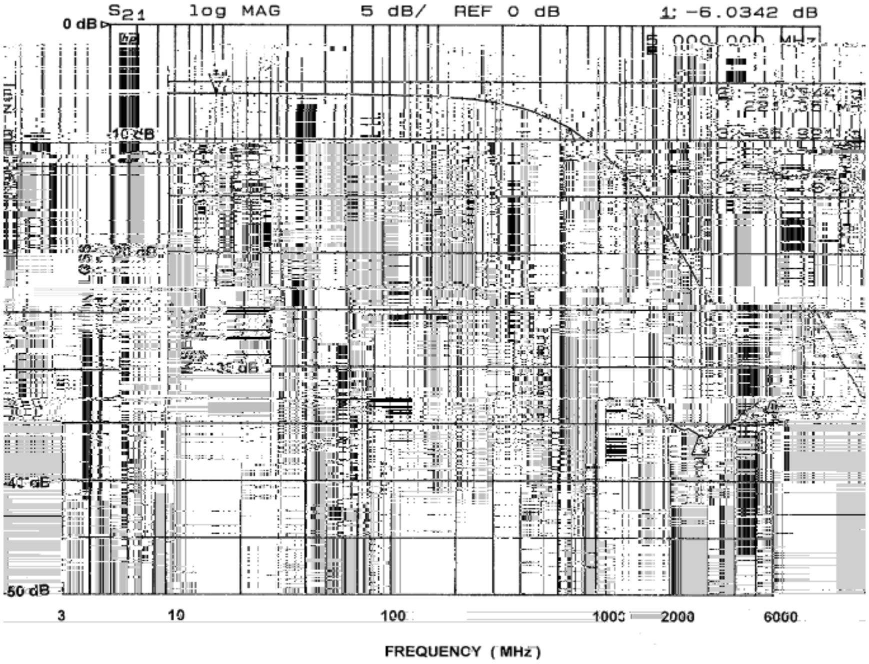

Figure 9. Insertion Loss vs. Frequency (A8−C8 to GND B4)

PERFORMANCE INFORMATION (Cont'd)

Typical Filter Performance (T_A = 25°C, DC Bias = 0 V, 50 Ω Environment)

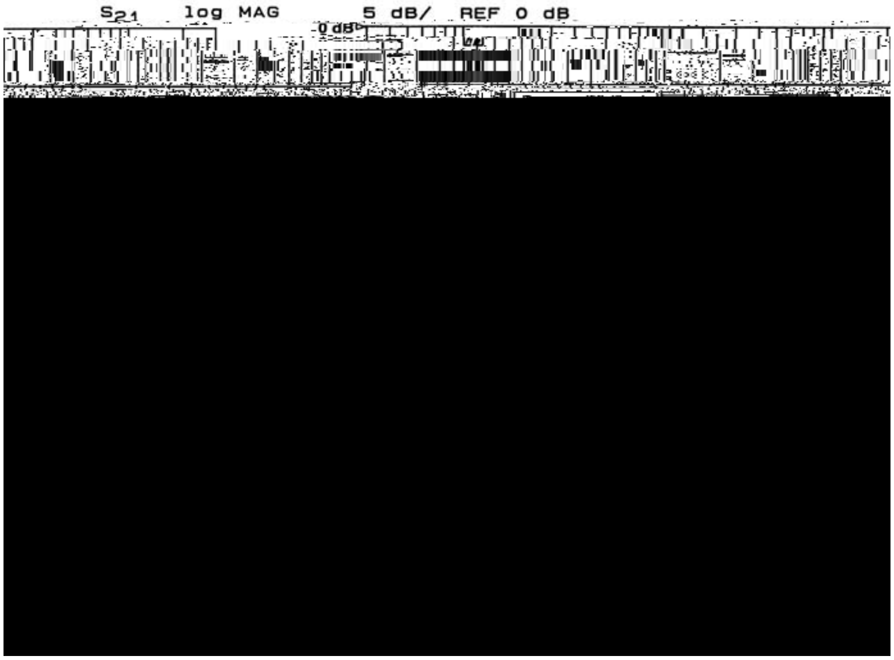

Figure 10. Comparison of Filter Response Curves for CM1443 vs. DC Bias

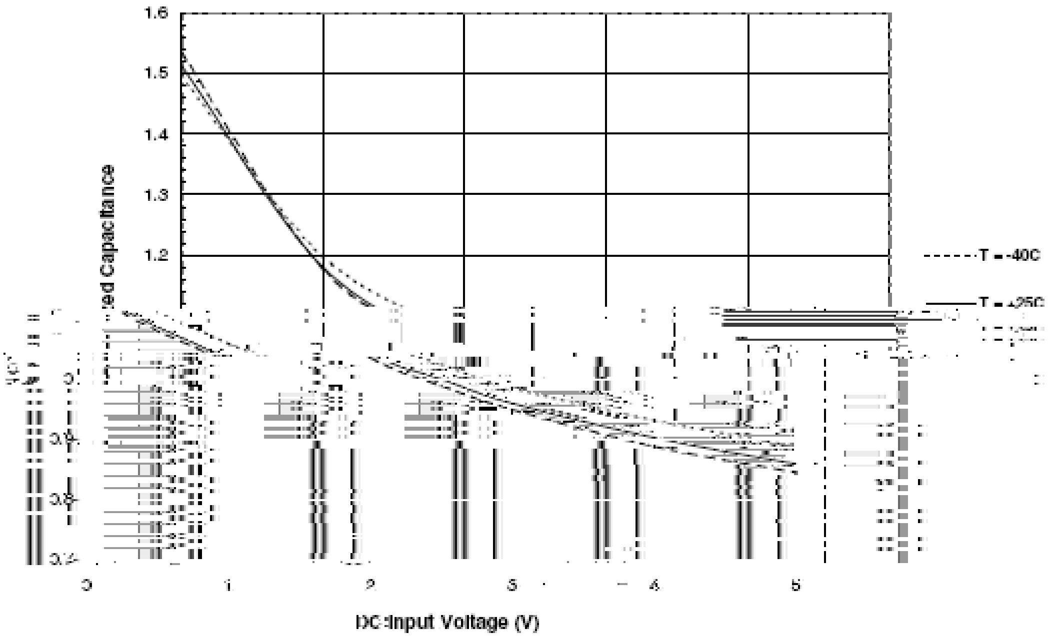

Figure 11. Filter Capacitance vs. Input Voltage over Temperature (normalized to capacitance at 2.5 VDC and 25°C)

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