

APPLICATIONS

- ✓ Cellular Phones
- ✓ Color LCD Display Panel
- ✓ Notebooks
- ✓ Personal Digital Assistant (PDA)
- ✓ Ground Positioning System (GPS)
- ✓ SMART Cards

IEC COMPATIBILITY (EN61000-4)

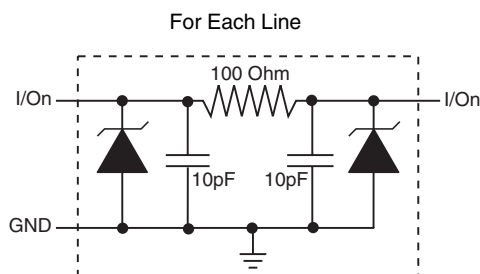
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns

FEATURES

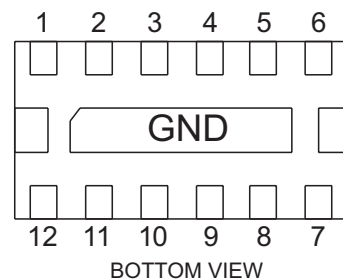
- ✓ ESD Protection > 25 kilovolts
- ✓ EMI Filtering/TVS Low Pass Filters
- ✓ Blocking Rectifier
- ✓ > 25db Attenuation from 800MHz to 3GHz
- ✓ Protects up to Six(6) Data Lines
- ✓ RoHS Compliant

MECHANICAL CHARACTERISTICS

- ✓ DFN-12LP Package
- ✓ Available Lead-Free Pure-Tin Plating(Annealed)
- ✓ Solder Reflow Temperature:
Pure-Tin - Sn, 100: 260-270°C
- ✓ Consult Factory for Leaded Device Availability
- ✓ Flammability Rating UL 94V-0
- ✓ Device Marking: Marking Code
- ✓ 8mm Tape and Reel Per EIA Standard 481

**PIN CONFIGURATION**

Note: I/O connected from pins 1-12, 2-11, 3-10, 4-9, 5-8 and 6-7.



EM6DLP-100L

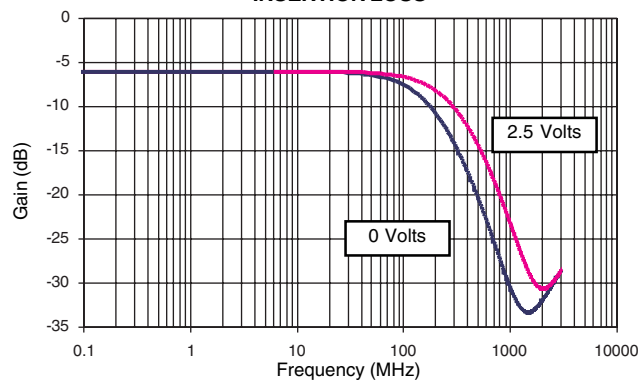
DEVICE CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Unless Otherwise Specified			
PARAMETER	SYMBOL	VALUE	UNITS
Operating Temperature	T_A	-40 to 85	°C
Storage Temperature	T_{STG}	-55 to 150	°C
DC Power Per Resistor	P	400	mW
Typical Resistance @ $\pm 20\%$	R	100	OHMS
Soldering Temperature for 10 seconds	T_L	265	°C

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified								
PART NUMBER	DEVICE MARKING CODE	RATED STAND-OFF VOLTAGE	MINIMUM BREAKDOWN VOLTAGE	MAXIMUM REVERSE LEAKAGE CURRENT	TYPICAL FORWARD VOLTAGE	MINIMUM ATTENUATION	CUT-OFF FREQUENCY (50 OHMS I/O) ZERO BIAS	TYPICAL CAPACITANCE (See Note 1)
		V_{WM} VOLTS	@ 1mA $V_{(BR)}$ VOLTS	@ 3V I_b μA	@ 10mA V_F VOLTS	@ 800-3000 MHz dB	fC MHz	@ 2.5V, 1MHz C pF
EM6DLP-100L	6LP	5.0	6.0	0.1	0.8	25	150	20

Note 1: 32pF @ 0V, 1MHz, $\pm 20\%$ tolerance.

**FIGURE 1
INSERTION LOSS**



GRAPHS

FIGURE 1
RESISTANCE VS TEMPERATURE
(Normalized to Resistance at 25°C)

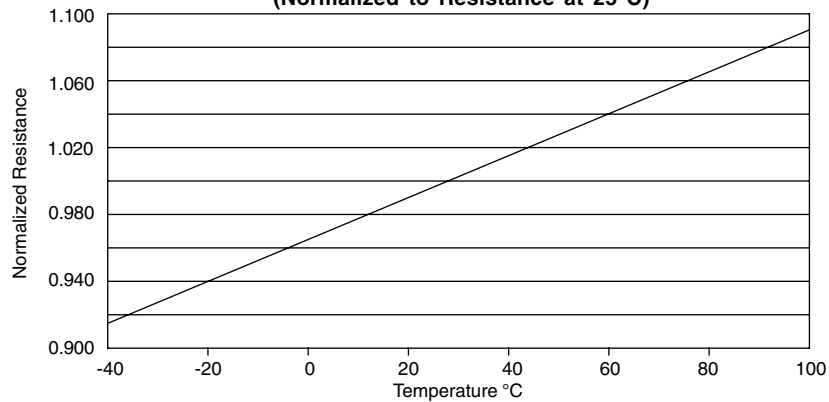


FIGURE 3
CAPACITANCE VS REVERSE VOLTAGE
(Normalized to Capacitance at 2.5V DC & 25°C)

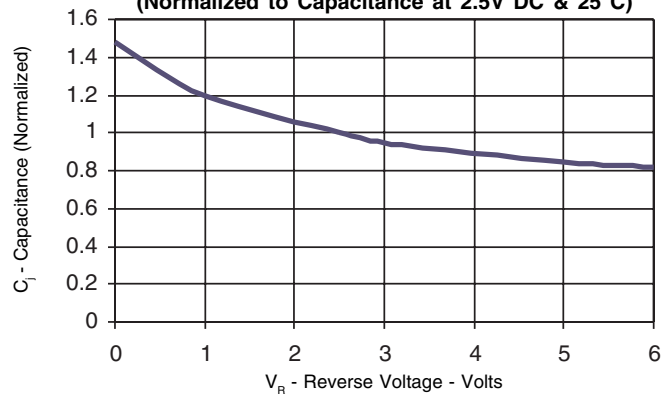
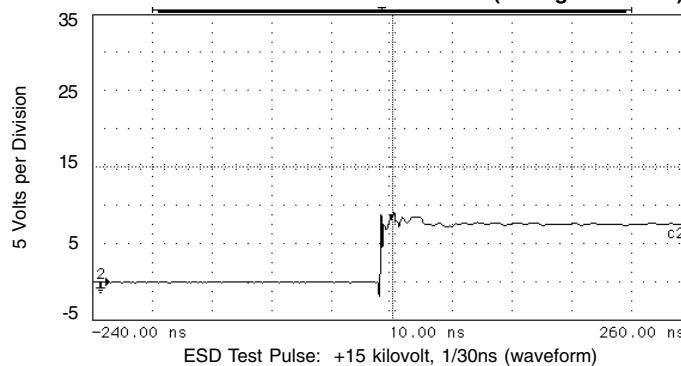
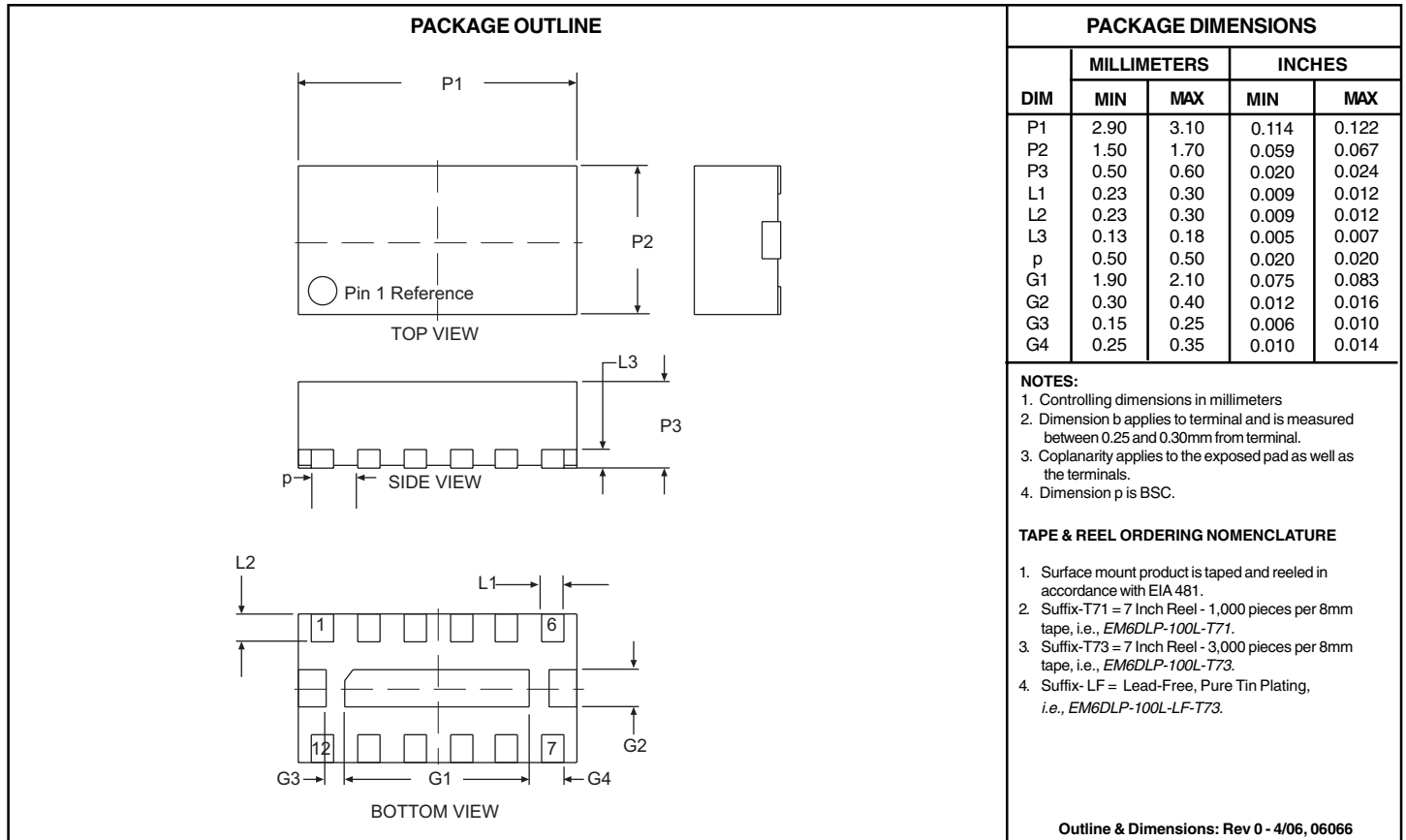


FIGURE 4
OVERSHOOT & CLAMPING VOLTAGE (through the filter)



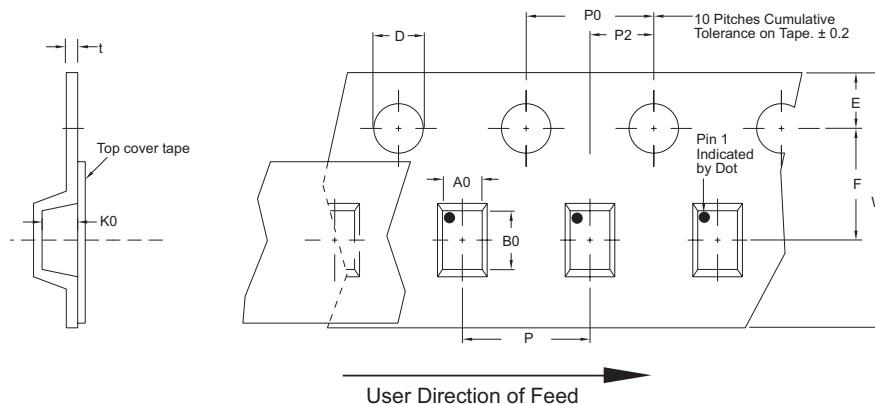
EM6DLP-100L

DFN-12LP PACKAGE OUTLINE & DIMENSIONS



Tape & Reel Specifications (Dimensions in millimeters)

Reel Dia.	Tape Width	A0	B0	K0	D	E	F	W	P0	P2	P	t
178mm (7")/330mm(13")	8mm	1.90±0.10	3.25±0.10	0.80 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	8.00 ±0.30	4.00 ±0.10	2.00 ±0.05	4.00 ±0.10	0.30±0.05



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