

**EMI FILTER/TVS ARRAY****APPLICATIONS**

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

**IEC COMPATIBILITY (EN61000-4)**

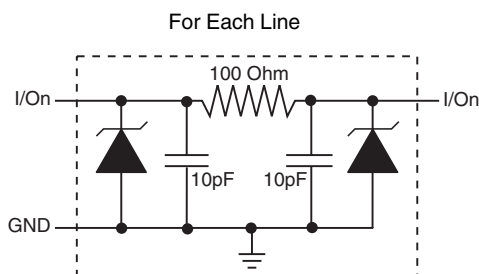
- ✓ 61000-4-2 (ESD): Air - 15kV, Contact - 8kV
- ✓ 61000-4-4 (EFT): 40A - 5/50ns

**FEATURES**

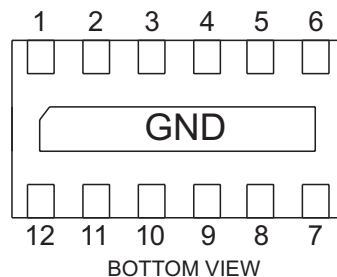
- ✓ ESD Protection > 25 kilovolts
- ✓ EMI Filtering/TVS Low Pass Filters
- ✓ > 25db Attenuation from 800MHz to 3GHz
- ✓ Protects up to Six(6) Data Lines
- ✓ RoHS Compliant

**MECHANICAL CHARACTERISTICS**

- ✓ DFN-12SLP Package
- ✓ Available in 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.



# EM6DSLP-100L

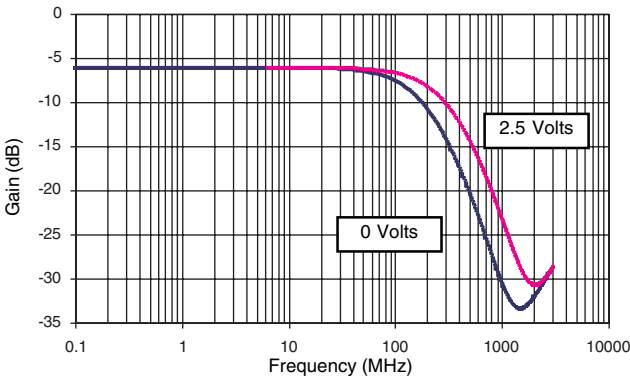
## DEVICE CHARACTERISTICS

| MAXIMUM RATINGS @ 25°C Unless Otherwise Specified |                  |            |       |
|---------------------------------------------------|------------------|------------|-------|
| PARAMETER                                         | SYMBOL           | VALUE      | UNITS |
| Operating Temperature                             | T <sub>A</sub>   | -40 to 85  | °C    |
| Storage Temperature                               | T <sub>STG</sub> | -55 to 150 | °C    |
| DC Power Per Resistor                             | P                | 400        | mW    |
| Typical Resistance @ ± 20%                        | R                | 100        | OHMS  |
| Soldering Temperature for 10 seconds              | T <sub>L</sub>   | 265        | °C    |

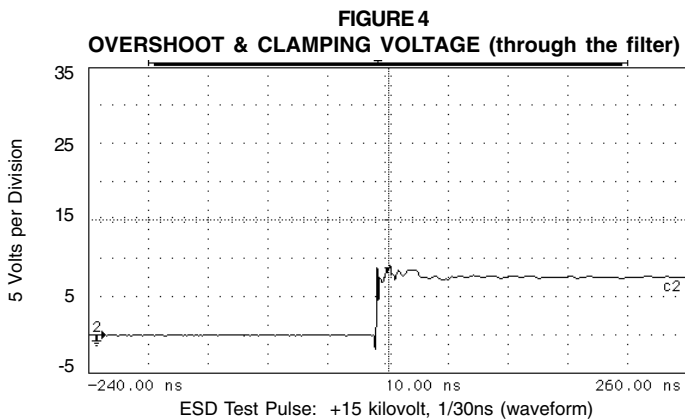
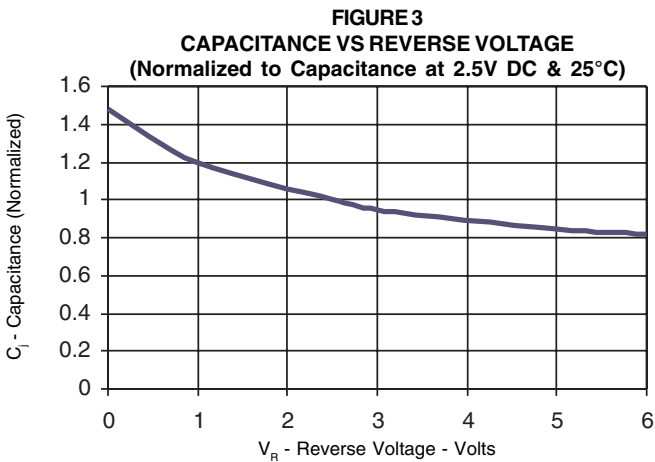
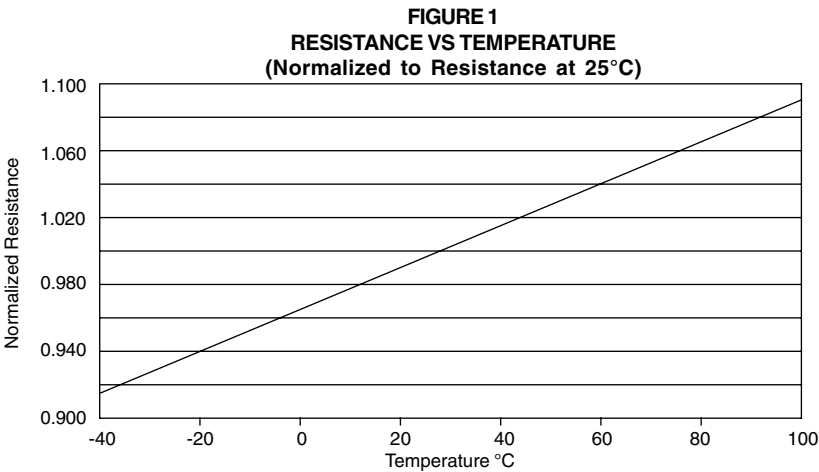
| ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified |                     |                         |                                  |                                 |                                |                      |                                           |                                  |
|-----------------------------------------------------------------------|---------------------|-------------------------|----------------------------------|---------------------------------|--------------------------------|----------------------|-------------------------------------------|----------------------------------|
| 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 <sub>WM</sub> VOLTS   | @ 1mA<br>V <sub>(BR)</sub> VOLTS | @ 3V<br>I <sub>b</sub> μA       | @ 10mA<br>V <sub>F</sub> VOLTS | @ 800-3000 MHz<br>dB | fC<br>MHz                                 | @ 2.5V, 1MHz<br>C<br>pF          |
| EM6DSLP-100L                                                          | 6SLP                | 5.0                     | 6.0                              | 0.1                             | 0.8                            | 25                   | 150                                       | 20                               |

**Note 1:** 32pF @ 0V, 1MHz, ± 20% tolerance.

FIGURE 1  
INSERTION LOSS

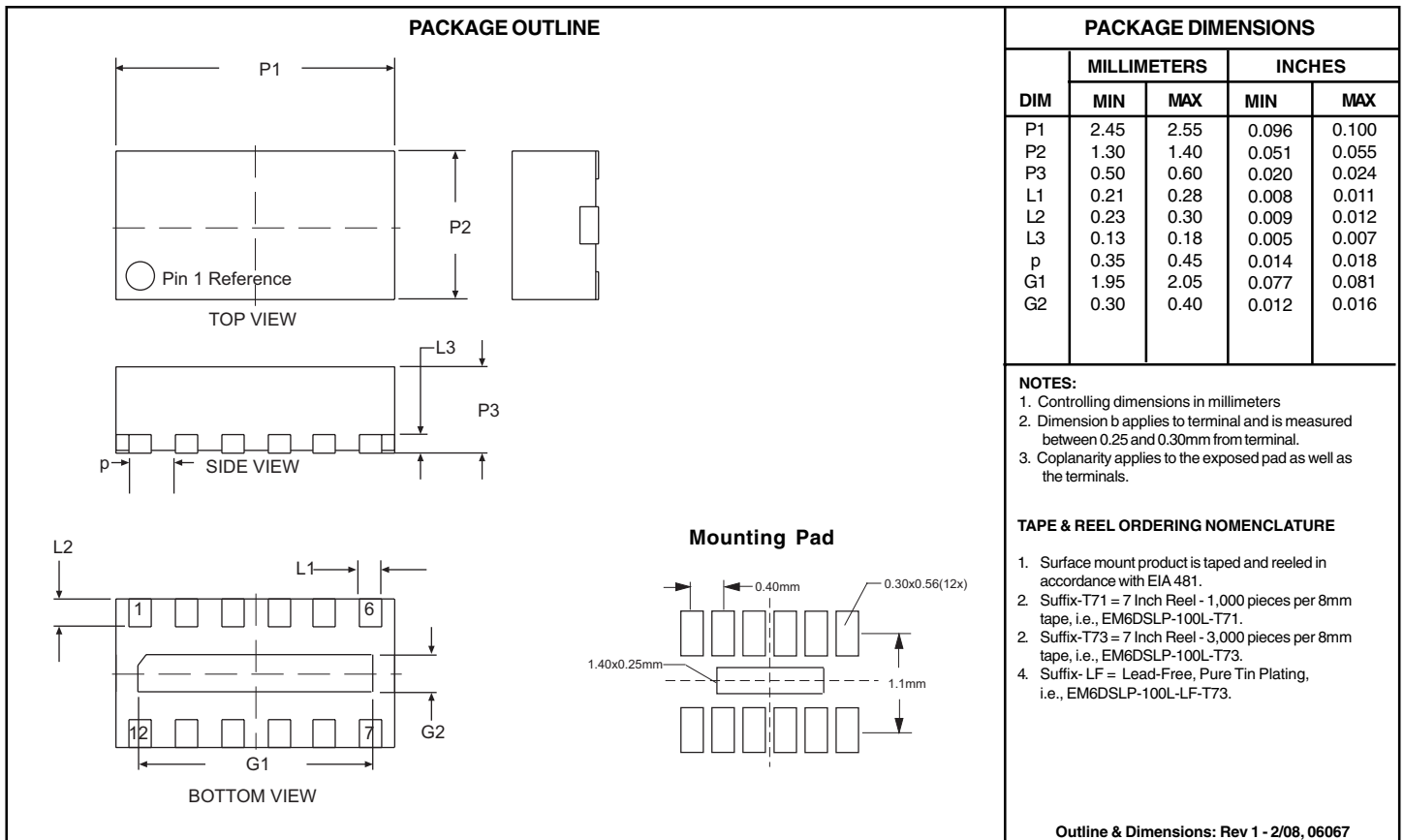


GRAPHS



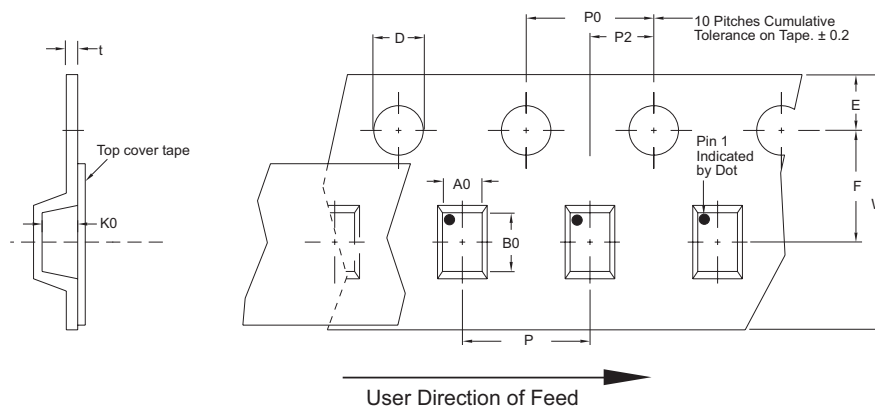
# EM6DSLP-100L

## DFN-12SLP 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        | 1.70± 0.10 | 2.70± 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 | 0.25±0.05 |



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