

EMRS-2D

- +7 dBm LO Power
- Up to +1 dBm RF
- Surface Mount
- Tape and Reel Packaging Available

Frequency Range	
RF, LO	10–1000 MHz
IF	DC–1000 MHz

Isolation	Typical	Minimum
LO to RF		
10–100 MHz	59 dB	40 dB
100–500 MHz	40 dB	30 dB
500–1000 MHz	33 dB	22 dB
LO to IF		
10–100 MHz	55 dB	30 dB
100–500 MHz	40 dB	22 dB
500–1000 MHz	30 dB	20 dB

Impedance	50 Ohms Nominal
RF Input for 1 dB Compression	+1 dBm

Parameter	Absolute Maximum
RF Power	50 mW
Peak IF Current	40 mA
Operating/Storage Temp.	-55 °C to +100 °C

Figure 1 shows the dimensions of the 16-pin DIP package. The top view shows a square package with pins 1 through 6 labeled. The width is 0.250 (6.35±0.3) inches. The distance between pins 1 and 2 is 0.310 (7.87±0.3) inches. The distance between pins 2 and 3 is 0.100 (2.5) inches. The distance between pins 3 and 4 is 0.040 (1.0) inches. The distance between pins 4 and 5 is 0.035 (0.9) inches. The distance between pins 5 and 6 is 0.100 (2.5) inches. The bottom view shows the same package from the underside, with pins 1 through 6 labeled. The distance between pins 1 and 2 is 0.100 (2.5) inches. The distance between pins 2 and 3 is 0.040 (1.0) inches. The distance between pins 3 and 4 is 0.035 (0.9) inches. The distance between pins 4 and 5 is 0.100 (2.5) inches. The distance between pins 5 and 6 is 0.100 (2.5) inches. The side view shows the package height, which is 0.200 (5.08) inches maximum. The footprint for PC design shows the package footprint with dimensions: 0.130 (3.3) inches for the pin pitch, 0.050 (1.27) inches for the pin width, 0.100 (2.5) inches for the pin spacing, 0.070 (1.78) inches for the pin height, and 0.310 (7.87) inches for the package width.

A diagram of a square arena with six numbered ports (1-6) around its perimeter. Port 1 is at the top-left, 2 at the top-middle, 3 at the top-right, 4 at the bottom-right, 5 at the bottom-middle, and 6 at the bottom-left. An 'ORIENTATION DOT' is located near port 6, indicated by a line pointing to it.

Function	Pin No.
LO	1
RF	4
IF	5
Ground	2,3,6
Case Ground	—

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