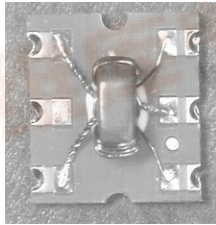




E-Series 2-Way 0° Power Divider 5 - 1000 MHz

Features

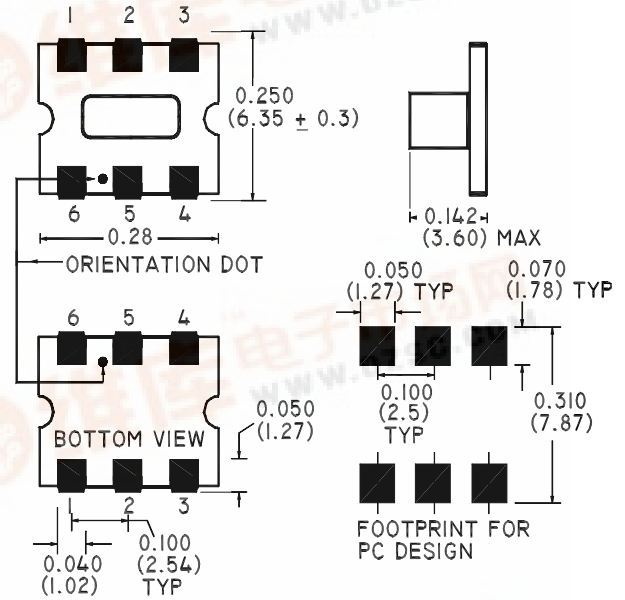
- 2 Way
- 0 Degree
- Surface Mount



Description

M/A-COM's ESSM-2-8-75 is a 2 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume cellular, wireless and CATV applications. An external 160 Ohm chip resistor is required with this part.

SM-55 Package



Electrical Specifications @25°C

Parameter	Units	Typical	Minimum	Maximum
Frequency Range	5 - 1000	MHz	—	—
Insertion Loss	5 - 40 MHz	dB	0.6	1.0
	40 - 400 MHz	dB	0.6	0.9
	400 - 500 MHz	dB	0.8	1.0
	500 - 1000 MHz	dB	0.8	1.4
Isolation	5 - 40 MHz	dB	26	19
	40 - 400 MHz	dB	26	19
	400 - 500 MHz	dB	21	16
	500 - 1000 MHz	dB	17	10
Amplitude Unbalance	5 - 40 MHz	dB	—	0.6
	40 - 400 MHz	dB	—	0.4
	400 - 500 MHz	dB	—	0.6
	500 - 1000 MHz	dB	—	0.6
Phase Unbalance	5 - 40 MHz	°	—	3.0°
	40 - 400 MHz	°	—	3.0°
	400 - 500 MHz	°	—	3.0°
	500 - 1000 MHz	°	—	5.0°
Output Return Loss	5 - 40 MHz	dB	20	14
	40-870 MHz	dB	24	18
	40 - 1000 MHz	dB	24	18
Input Return Loss	5 - 40 MHz	dB	20	20
	40-870 MHz	dB	22	17
	40 - 1000 MHz	dB	22	16

Please Note that the photograph above indicates package shape only, unit may be wired differently.

Specifications subject to change without notice.

Absolute Maximum Ratings

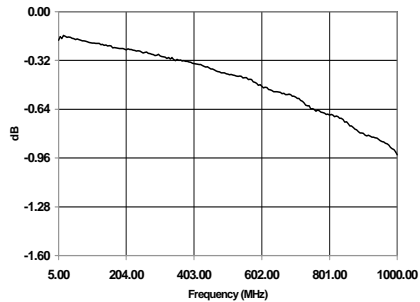
Parameter	Absolute Maximum
RF Power	1 Watt
Internal Load Dissipation	0.125 Watt
Pin Temp (10 Sec)	260°C
Storage Temperature	-20°C to 85°C
Operating Temperature	-20°C to 85°C

Functional Configuration

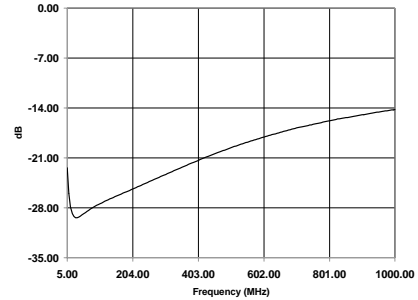
Function	Pin No.
Not Connected	5,2
External 75 Ohms	—
Ground	1
Case Ground	—
Input	6
Port 1	4
Port 2	3

Typical Performance @ +25°C

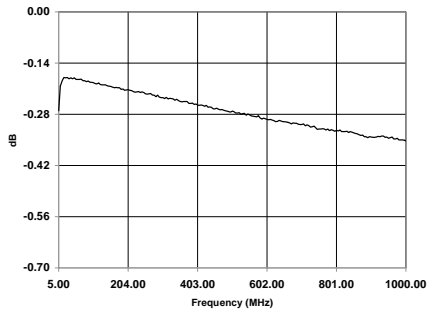
Insertion Loss



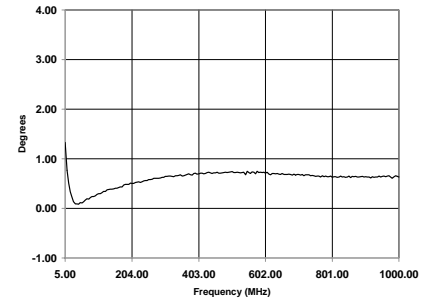
Isolation



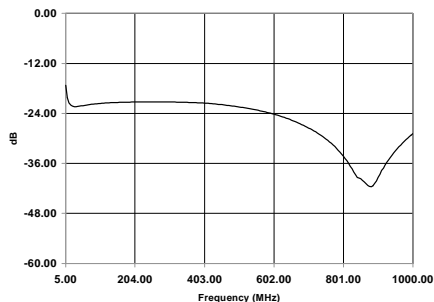
Amplitude Unbalance



Phase Unbalance



Output Return Loss



Input Return Loss

