

E-Series 2-Way 0° Power Divider
5 – 900 MHz

ESSM-2-6
V1

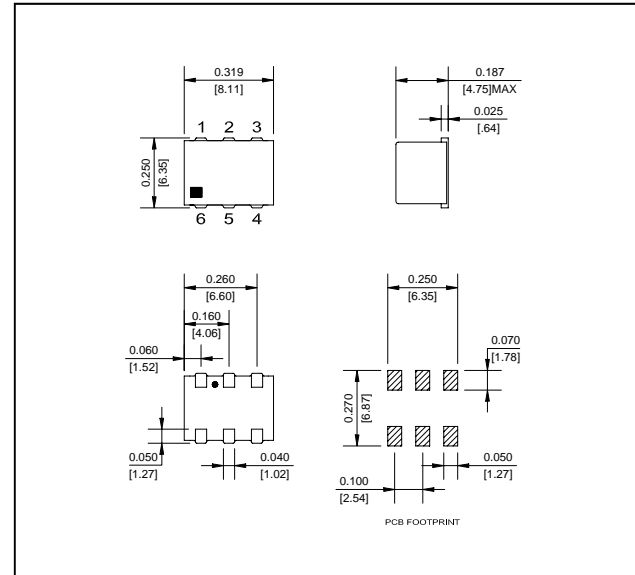
Features

- 2-Way
- 0°
- Surface Mount
- Tape and reel packaging available

Description

M/A-COM's ESSM-2-6 is a 2 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume cellular and wireless applications. Parts are packaged in tape & reel.

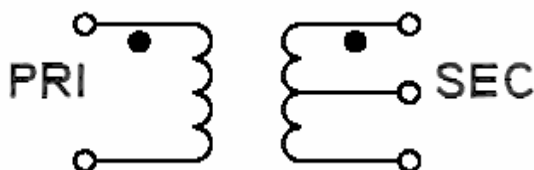
SM - 1 Package



Electrical Specifications: $T_A = 25^\circ\text{C}$, $Z_0 = 50\Omega$ ¹

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
RF Frequency	—	5 - 900	MHz	—	—	—
Insertion Loss	$F_L - f_U$	5 - 50	dB	—	0.2	0.4
		50 - 450	dB	—	0.4	0.7
		450 - 900	dB	—	0.7	1.2
Isolation	$F_L - f_U$	5 - 50	dB	20	28	—
		50 - 450	dB	20	28	—
		450 - 900	dB	15	22	—
Amplitude Unbalance	$F_L - f_U$	5 - 50	dB	—	—	0.2
		50 - 450	dB	—	—	0.3
		450 - 900	dB	—	—	0.5
Phase Unbalance	$F_L - f_U$	5 - 50	Degrees	—	—	2
		50 - 450	Degrees	—	—	3
		450 - 900	Degrees	—	—	5
Input & Output Return Loss	$F_L - f_U$	5 - 900	dB	16.0	25.0	—

Schematic



Ordering Information

Part Number	Package
ESSM-2-6TR	Tape and Reel (900 piece Reel)

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Absolute Maximum Ratings ¹

Parameter	Absolute Maximum
Maximum Power Rating	1 Watt
Internal Load Dissipation	0.125 Watt
Pin Temperature (10 Sec)	250°C
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +125°C

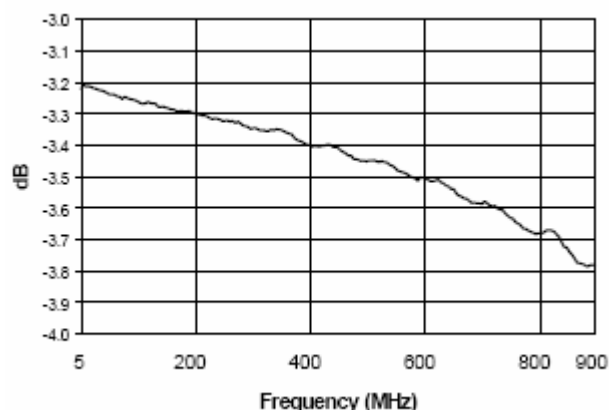
1. Operation of this device above any one of these parameters may cause permanent damage.

Pin Configuration

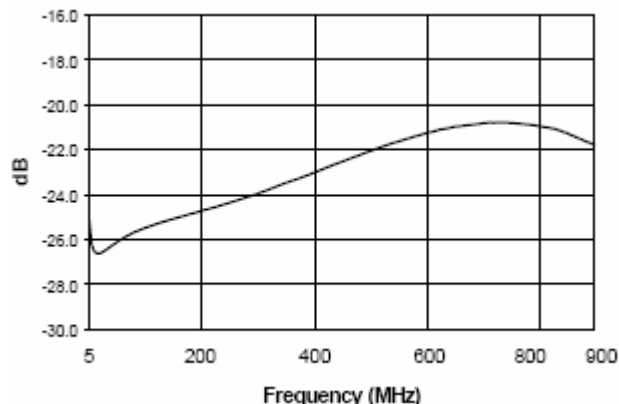
Pin No.	Function
1	Ground
2	Not Connected
3	Port 2
4	Port 1
5	Not Connected
6	Input

Typical Performance @ +25° C

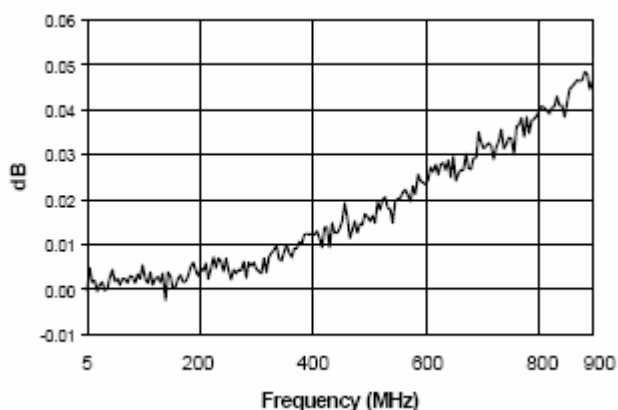
Insertion Loss



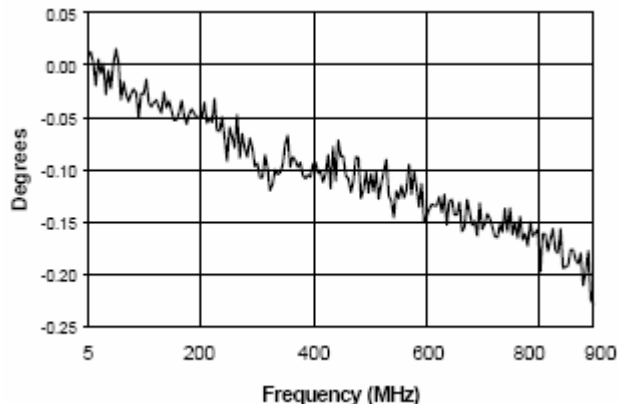
Isolation



Amplitude Unbalance

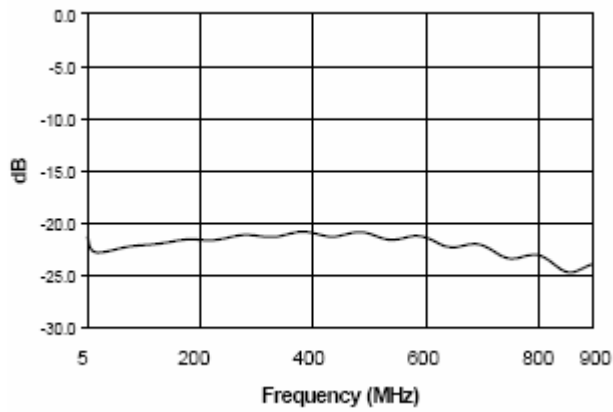


Phase Unbalance



Typical Performance @ +25° C

Output Return Loss



Input Return Loss

