



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

ESSM-2-6 V1

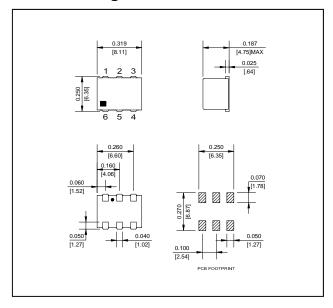
Features

- 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.

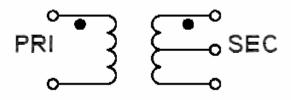
SM - 1 Package



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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
RF Frequency	_	5 - 900	MHz	_	_	_
Insertion Loss	F _L —f _U	5 - 50 50 –4 50 450 - 900	dB dB dB	_ _ _	0.2 0.4 0.7	0.4 0.7 1.2
Isolation	F _L —f _U	5 - 50 50 -4 50 450 - 900	dB dB dB	20 20 15	28 28 22	_ _ _
Amplitude Unbalance	F _L —f _U	5 - 50 50 –4 50 450 - 900	dB dB dB	_ _ _	_ _ _	0.2 0.3 0.5
Phase Unbalance	F _L —f _U	5 - 50 50 –4 50 450 - 900	Degrees Degrees Degrees	_ _ _	_ _ _	2 3 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		

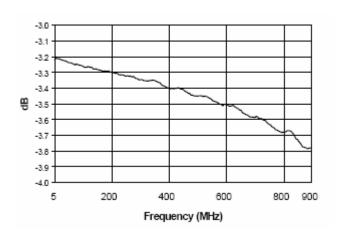
^{1.} Operation of this device above any one of these parameters may cause permanent damage.

Pin Configuration

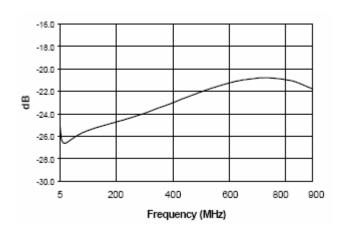
Pin No.	Function
1	Ground
2	Not Connected
3	Port 2
4	Port 1
5	Not Connected
6	Input

Typical Performance @ +25° C

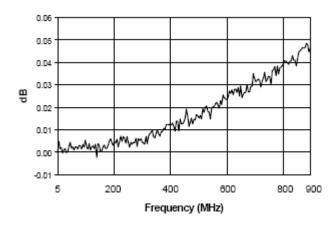
Insertion Loss



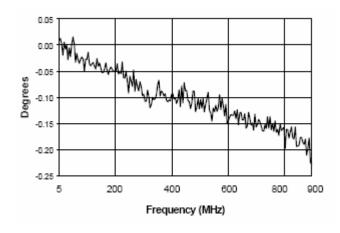
Isolation



Amplitude Unbalance



Phase Unbalance



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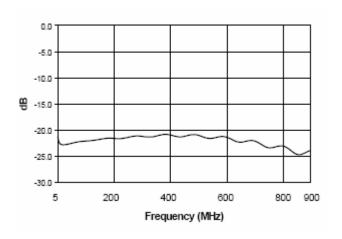


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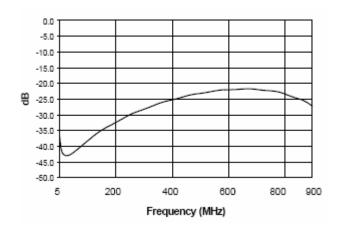
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Output Return Loss



Input Return Loss



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