

## E-Series 2-Way 0° Power Divider

Rev. V2

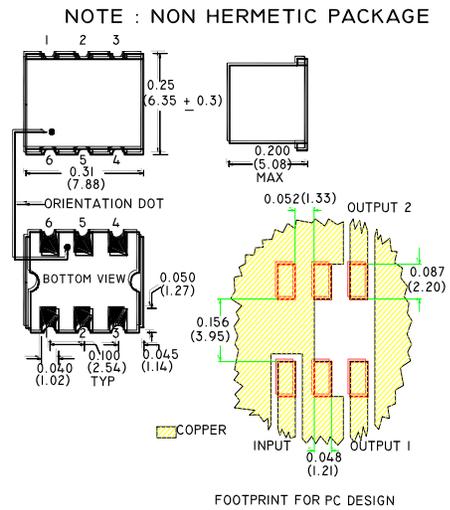
### Features

- 2 Way
- 0 Degree
- Surface Mount
- 75 Ohm

### Description

ELPD-20-1 is a 2 Way 0° Power Divider in a low cost, surface mount package. Ideally suited for high volume CATV applications.

### SM-139 Package



\* Restrictions on Hazardous Substances, European Union Directive 2011/65/EU.

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### Electrical Specifications @25°C

Parameter	Units	Typical	Minimum	Maximum
Frequency Range	5 - 1000	MHz	—	—
Insertion Loss	5 - 50 MHz	dB	0.2	0.5
	50 - 500 MHz	dB	0.5	0.8
	500 - 1000 MHz	dB	1.0	1.3
Isolation	5 - 50 MHz	dB	26	22
	50 - 500 MHz	dB	29	22
	500 - 1000 MHz	dB	22	18
Amplitude Unbalance	5 - 50 MHz	dB	—	0.1
	50 - 500 MHz	dB	—	0.3
	500 - 1000 MHz	dB	—	0.5
Phase Unbalance	5 - 50 MHz	°	—	1.0°
	50 - 500 MHz	°	—	3.0°
	500 - 1000 MHz	°	—	4.0°
Output Return Loss	5 - 750 MHz	dB	—	18
	750 - 1000 MHz	dB	—	15
Input Return Loss	5 - 1000 MHz	dB	—	18
	750 - 1000 MHz	dB	—	12

### Absolute Maximum Ratings

Parameter	Absolute Maximum
Maximum Power Rating	1 Watt
Internal Load Dissipation	0.125 Watt
Pin Temp (10 Sec)	260°C
Storage Temperature	-55°C to 100°C
Operating Temperature	-55°C to 100°C

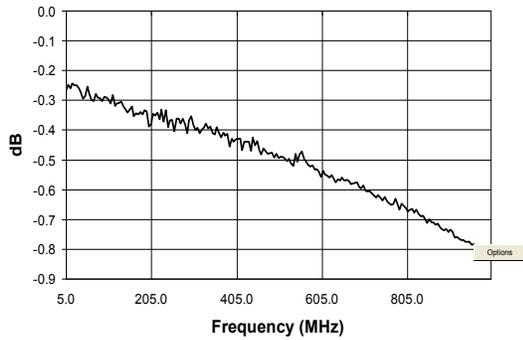
### Functional Configuration

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

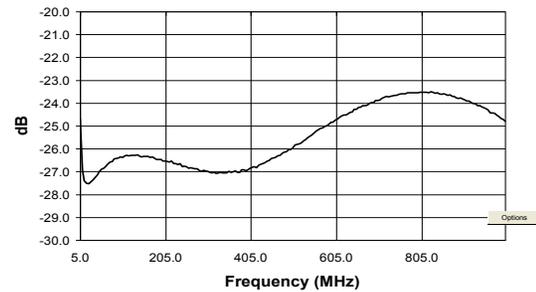
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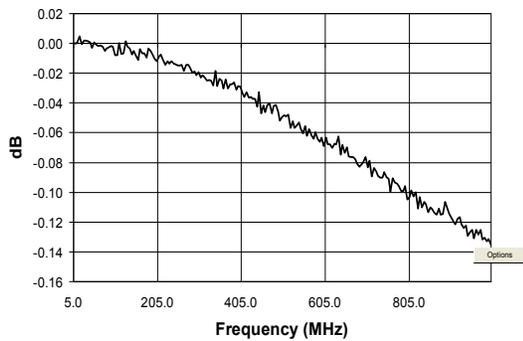
### Typical Performance @ +25°C



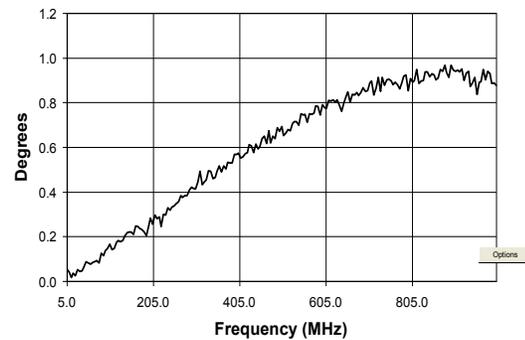
### Isolation



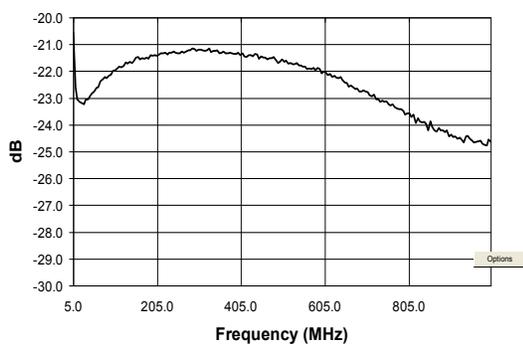
### Amplitude Unbalance



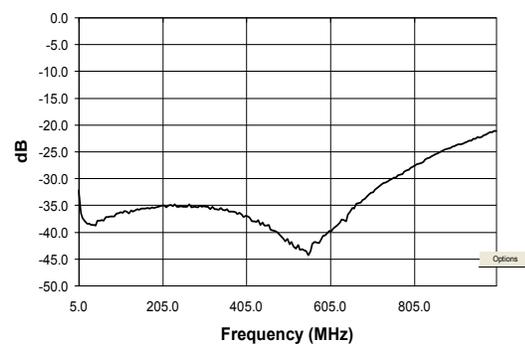
### Phase Unbalance



### Output Return Loss



### Input Return Loss



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