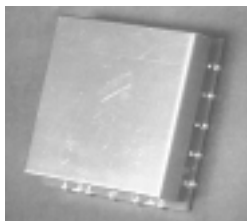


E-Series Diplexer 5 – 870 MHz

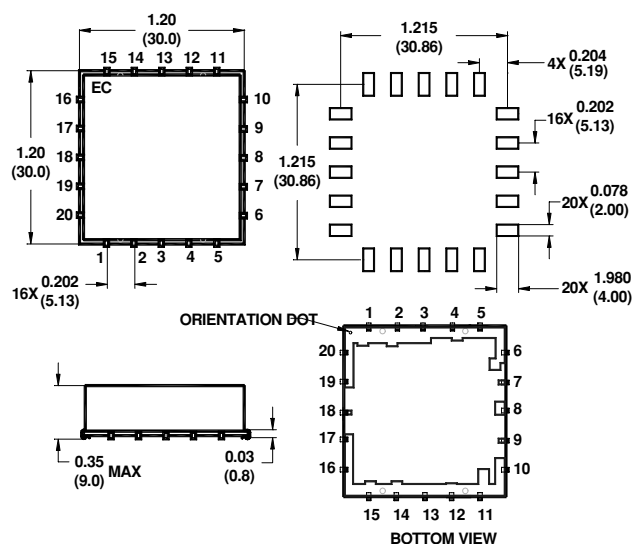


Features

- Surface Mount
- Impedance 75 Ohms Nominal



SM-85 Package



Description

M/A-COM's EDF-2E is a Low Cost, Non Hermetically Sealed Diplex Filter unit designed for CATV applications.

Electrical Specifications @ 25°C

Parameter	Units	Minimum	Typical	Maximum
Frequency Range	5 - 870 MHz			
Low Pass Cutoff	65 MHz	—	—	—
Low Pass Reject	88 MHz	—	—	—
High Pass Cutoff	88 MHz	—	—	—
High Pass Reject	65 MHz	—	—	—
Insertion Loss				
Low Pass 5 - 65 MHz PassBand	dB	—	0.5	1.2
Low Pass 88 - 870 MHz StopBand	dB	45.0	48.0	—
High Pass 5 - 65 MHz StopBand	dB	53.0	55.0	—
High Pass 88 - 870 MHz PassBand	dB	—	0.5	1.5
Insertion Loss Flatness				
5 - 65 MHz	dB	—	—	0.5
88 - 870 MHz	dB	—	—	0.5
Crossover Band Isolation				
65 - 88 MHz	dB	33.0	38.0	—
Return Loss Input Port				
5 - 65 MHz	dB	20.0	21.0	—
88 - 870 MHz	dB	20.0	21.0	—
Return Loss Low Pass Port				
5 - 65 MHz	dB	20.0	21.0	—
Return Loss High Pass Port				
88 - 870 MHz	dB	20.0	21.0	—

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Absolute Maximum Ratings

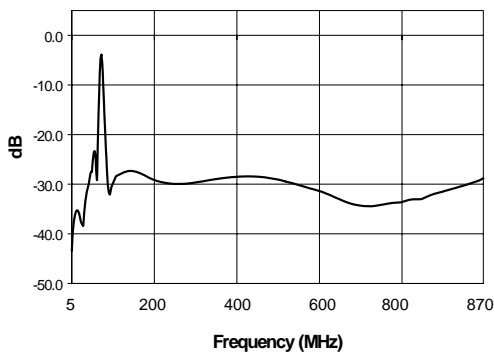
Parameter	Absolute Maximum
RF Power	250 mW
DC Current	30 mA
Storage Temperature	-20°C to +85°C

Functional Configuration

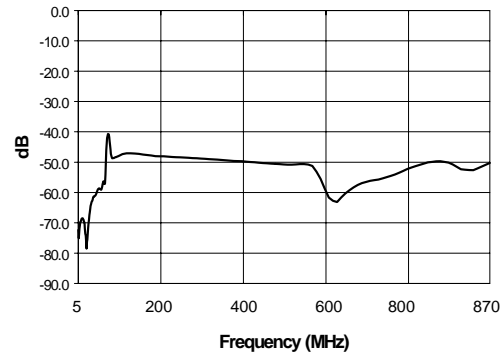
Function	Pin No.
Input	18
Low Pass	9
High Pass	7
Ground	1 - 6, 8, 10 - 17, 19, 20
Not Connected	—

Typical Performance @ +25°C

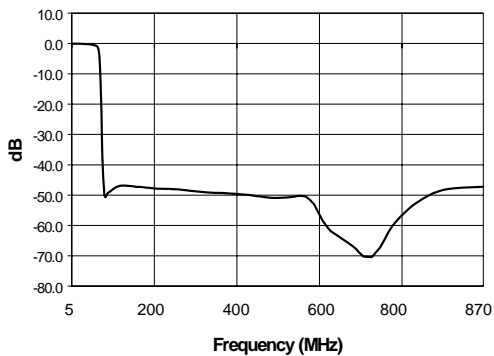
Input Return Loss



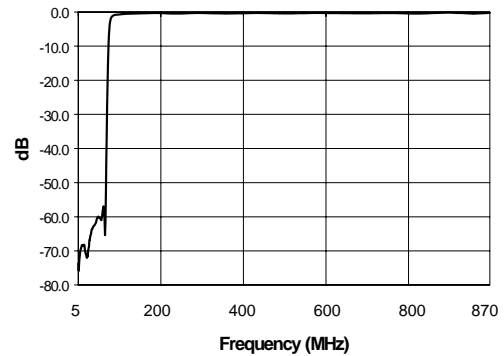
Isolation



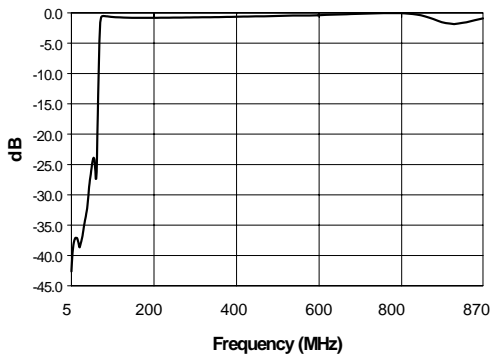
Low Pass Filter Insertion Loss



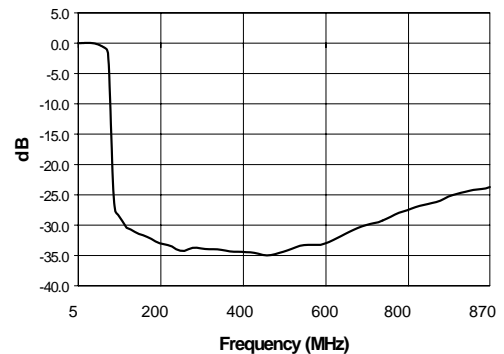
High Pass Filter Insertion Loss



Low Pass Filter Output Return Loss



High Pass Filter Output Return Loss



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