

MLBF5500D16

Band Pass Filter For 5150-5950Mhz

MiPD[®]

MECSINE 兆讯

Band Pass Filter

For 5150-5950MHz

MLBF5500D16

1.6 x 0.8mm [EIA 0603]

All Use For RF & Microwave

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Feb. 03, 2024

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FEATURES

- 1, Low Insertion Loss
- 2, Small size in 1608
- 3, Excellent high-power capacity up to 2W
- 4, RoHS compliance (Pb-Free)
- 5, AEC-Q200 qualified

DESCRIPTION

The MLBF5500D16 is a low cost, high-performance band pass filter in an easy to use surface mount package. The MLBF5500D16 is ideal for low insertion loss and wide band application. It is suitable used in smart phone, 5G module and other IOT modules. It is based on Megsine's advanced MiPD Technology which possess excellent electrical and mechanical stability. All components are 100% RF tested.

MAXIMUM RATINGS

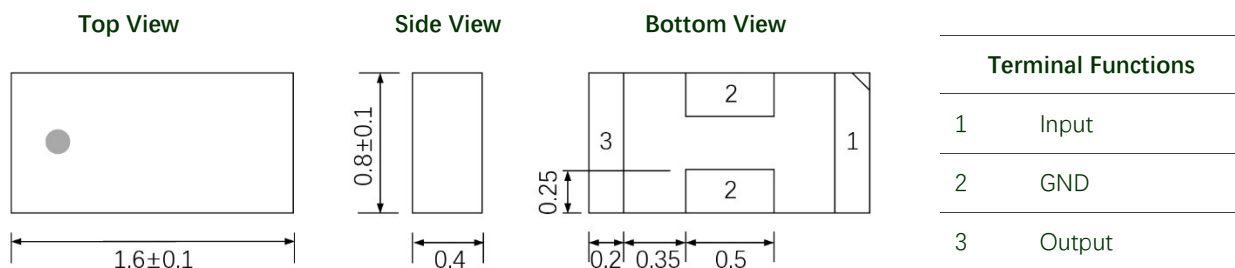
Parameter	Ratings	Units
RF Power (in BW)	33	dBm
Operating Temperature Range	-40~+85	°C
Storage Temperature Range	-40~+85	°C
Moisture Sensitivity Levels	3	MSL
ESD Level Human Body Model	3000	V

ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	5150 to 5950	-	1.8	2.5
Return Loss (dB)	5150 to 5950	10	15	-
Attenuation (dB)	30 to 2700	30	35	-
	3400 to 3800	19	25	-
	7250 to 7800	12	17	-
	10300 to 11700	27	33	-
Characteristics Impedance (Ω)		50 (Nominal)		

- Ta: +25±5°C

SHAPES AND DIMENSIONS



Unit: mm

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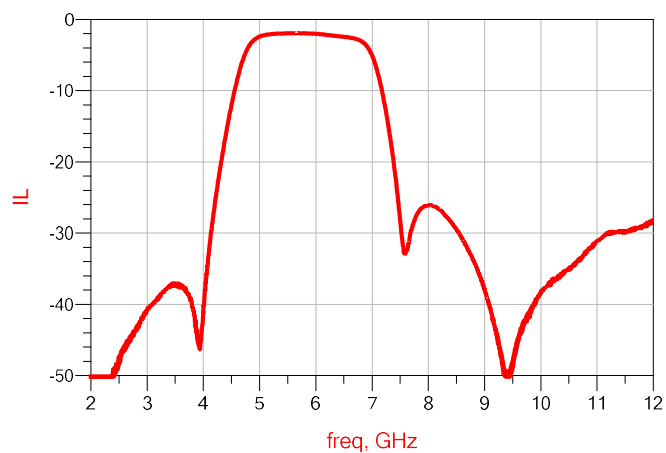
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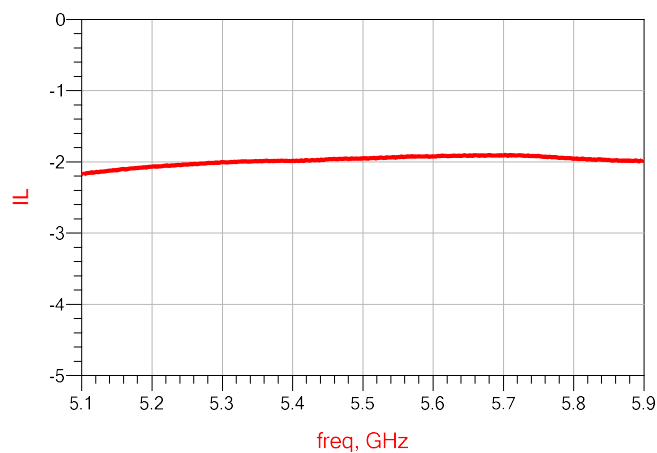
MECSINE 兆讯

FREQUENCY CHARACTERISTICS

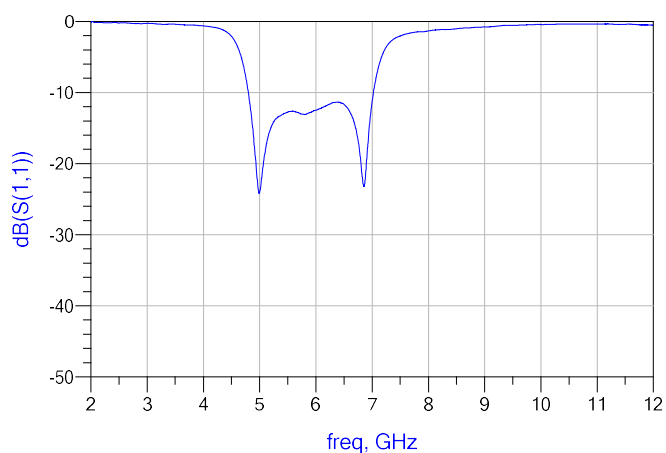
Insertion Loss



Attenuation



Return Loss



Device

Package

Reel

Shipping

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MLBF5500D16	1.6*0.8mm	7''	5000 Reel
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Revision	Description	Date
Rev0	Preliminary	2024/2/26
Rev1	Packaging	2025/2/24

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