

MLBF2450D16

Band Pass Filter For 2400-2500Mhz



MECSINE 兆讯

Band Pass Filter

For 2400-2500MHz

MLBF2450D16

1.6 x 0.8mm [EIA 0603]

All Use For RF & Microwave

Shenzhen Megsine technology co., ltd www.megsine.com sales@megsine.com may contain us for future information
Feb. 03, 2024

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MiPD[®]

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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 MLBF2450D16 is a low cost, high-performance band pass filter in an easy to use surface mount package. The MLBF2450D16 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

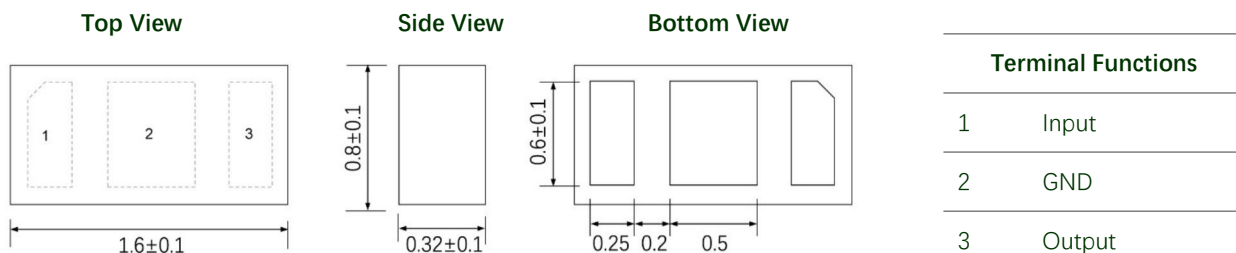
Parameter	Ratings	Units
RF Power (in BW)	33	dBm
Operating Temperature Range	-40~+85	°C
Storage Temperature Range	-40~+85	°C
Moisture Sensitivity Levels	3	MSL
ESD Level Human Body Model	3000	V

ELECTRICAL CHARACTERISTICS

Item	Frequency Range (MHz)	Min.	Typ.	Max.
Insertion Loss (dB)	2400 to 2500	-	0.8	1.25
Return Loss (dB)	2400 to 2500	10	15	-
Attenuation (dB)	800	35	42	-
	4800 to 5000	30	35	-
	7200 to 7500	30	35	-
Characteristics Impedance (Ω)		50 (Nominal)		

- Ta: +25±5°C

SHAPES AND DIMENSIONS



Unit: mm

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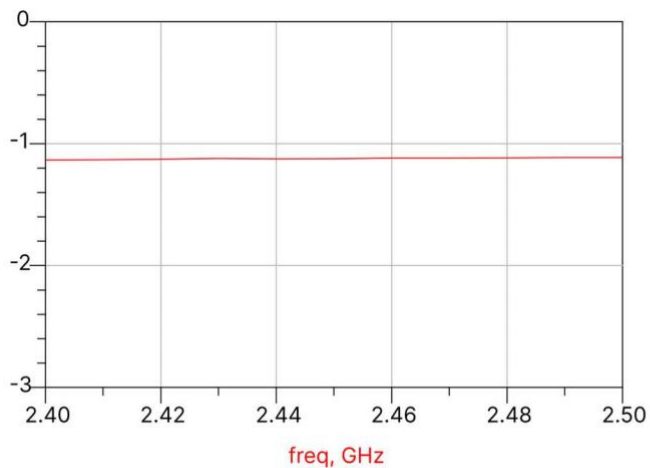
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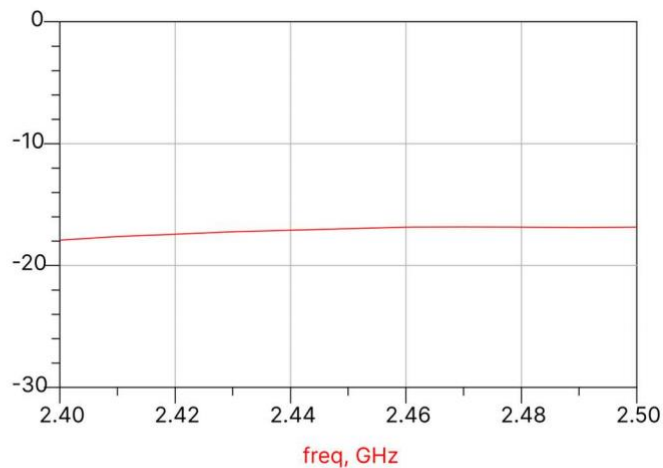
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FREQUENCY CHARACTERISTICS

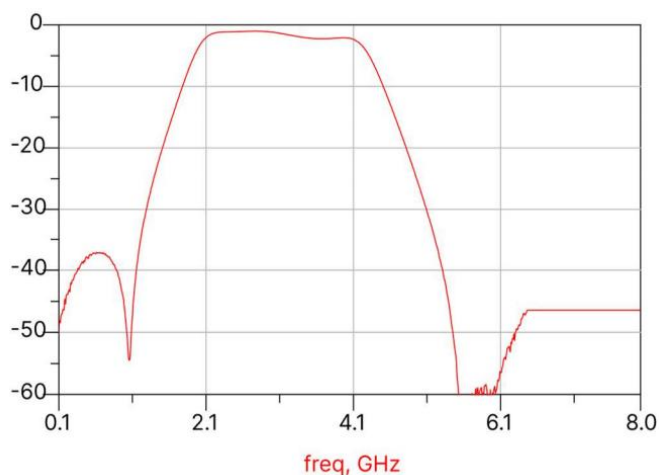
Insertion Loss



Return Loss



Attenuation



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Device	Package	Reel	Shipping
MLBF5500D16	1.6*0.8mm	7"	5000 Reel

Revision	Description	Date
Rev0	Preliminary	2024/2/26
Rev1	Packaging	2025/2/24
Rev1	Packaging	2025/9/28

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