

MLBF2100D16

Band Pass Filter For 2000-2200Mhz



MECSINE 兆讯

Band Pass Filter

For 2000-2200MHz

MLBF2100D16

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 MLBF2100D16 is a low cost, high-performance band pass filter in an easy to use surface mount package. The MLBF2100D16 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~+125	°C
Storage Temperature Range	-40~+125	°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)	2000 to 2200	-	2.5	3
Return Loss (dB)	2000 to 2200	10	16	-
Attenuation (dB)	700 to 950	30	35	-
	950 to 1250	20	25	-
	2700 to 5400	20	25	-
	5500 to 6200	20	25	-
	9350 to 10150	30	35	-
	10500 to 12750	15	20	-
Characteristics Impedance (Ω)		50 (Nominal)		

- Ta: +25±5°C

SHAPES AND DIMENSIONS

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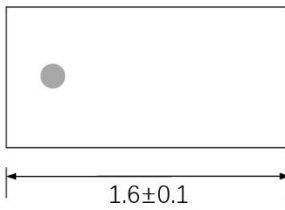
MLBF2100D16

MiPD[®]

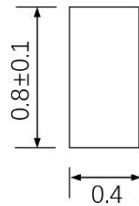
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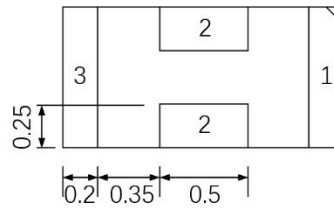
Top View



Side View



Bottom View



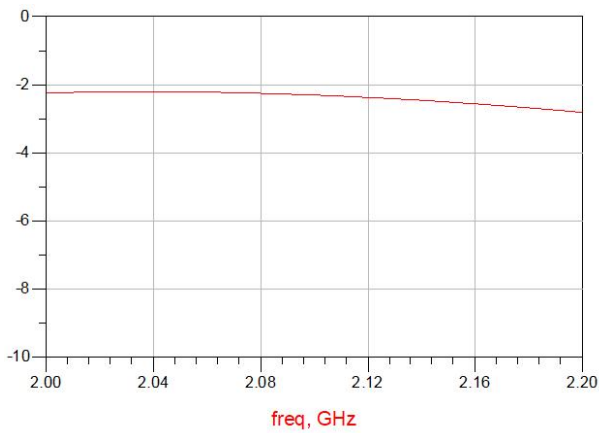
Terminal Functions

1	Input
2	GND
3	Output

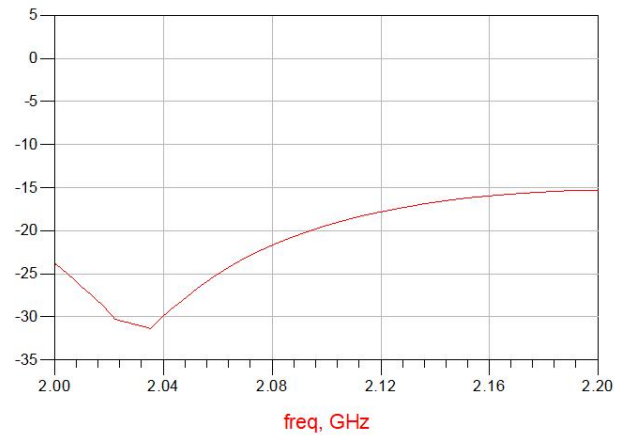
Unit: mm

FREQUENCY CHARACTERISTICS

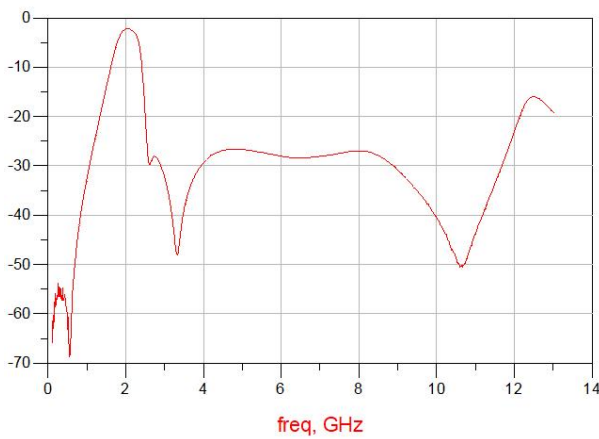
Insertion Loss



Return Loss



Attenuation



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Device	Package	Reel	Shipping
MLBF2100D16	1.6*0.8mm	7"	5000 Reel

Revision	Description	Date
Rev0	Preliminary	2025/7/28

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