

06/Nov/2019

PRODUCT SPECIFICATION FOR INFORMATION

● Product Name : BAW BAND PASS FILTER

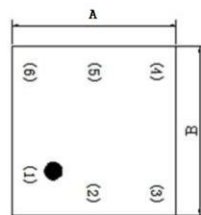
● Part No : MBP-C1575_70MB

PRELIMINARY SPECIFICATION

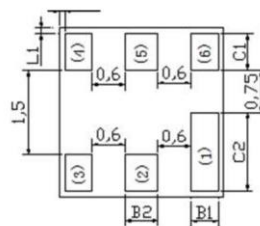
Electrical Specification

N.o	Parameter	Requirement	Comply / Partly comply / Not comply	Remark
1	Center Frequency[fo]	1575MHz	Comply	
2	Bandwidth [1dB BW]	$f_o \pm 35\text{MHz}$ [1540~1610]min.	Comply	
3	Insertion Loss @ fo	3.0dB max.	Comply	
4	Ripple in BW	1.5dB max.	Comply	
5	VSWR	2:1 max.	Comply	
6	Attenuation [Absolute Value]	30dB min.@1100~1500MHz	Comply	
		20dB min.@1500~1511MHz	Comply	
		20dB min.@1650~1670MHz	Comply	
		30dB min.@1670~2500MHz	Comply	
7	In/Out Impedance	50 Ω	Comply	
8	Operation Temperature Range	-55 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$	Comply	
9	Dimensions	3x3mm	Comply	
10	Mount Type	SMD package	Comply	

Package



Top



Bottom

Symbol	DIMENSION REQUIREMENT		
	MIN	NOM	MAX
A	0.65	0.75	0.85
A1	0.17	0.20	0.23
B	2.90	3.00	3.10
B1	0.45	0.50	0.55
B2	0.55	0.60	0.65
C	2.90	3.00	3.10
C1	0.60	0.65	0.70
C2	1.35	1.40	1.45
L1	0.00	0.10	0.20
L2	0.00	0.10	0.20

Notes:

- 1: Dimension: mm
- 2: Dimensions nominal unless otherwise noted
- 3: Contact area are gold plated

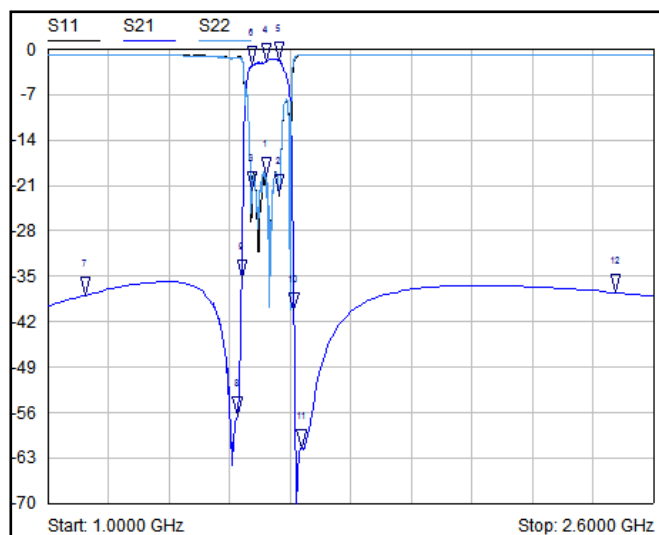
Pin connection:

- 2 Input
- 5 Output
- 1,3,4,6 Ground



Side View

SIMULATION CURVES



Mkr	Trace	X-Axis	Value
1	S11	1.5750 GHz	-19.46 dB
2	S11	1.6100 GHz	-22.14 dB
3	S11	1.5400 GHz	-21.67 dB
4	S21	1.5750 GHz	-1.97 dB
5	S21	1.6100 GHz	-1.73 dB
6	S21	1.5400 GHz	-2.49 dB
7	S21	1.1000 GHz	-37.86 dB
8	S21	1.5000 GHz	-56.32 dB
9	S21	1.5110 GHz	-35.39 dB
10	S21	1.6500 GHz	-40.29 dB
11	S21	1.6700 GHz	-61.50 dB
12	S21	2.5000 GHz	-37.52 dB