

MTPD121625D65

Beidou Multiplexer Filter

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Applications

1. Beidou short message handheld antenna
2. Individual-soldier system antenna
3. Satellite communications



Features

1. Low Insertion Loss 2dB typ based on LTCC.
2. High Isolation,.
3. Small Size 6.35 X 5.08 X 1.4mm³
4. Excellent high-power capacity up to average 20 watts

Description

The MTPD121625D65 is a high performance band pass multiplexer filter , and easy to use surface mount package. It can be used where need three band pass filters and a triplexer. It is easy to use with small PCB space. The MTPD121625D65 is constructed from LTCC which possess excellent electrical and mechanical stability. All components are 100% RF tested.

Characteristics

Part No.	Freq. Rang (MHz)	Insertion Loss (dB)	Attenuation (dB)	Return Loss (dB)
MTPD121625D65	1176-1278	2.5	-25@1559-1621&2480-2496	-10
	1559-1621	2.0	-25@1176-1278&2480-2496	-10
	2480-2496	2.0	-25@1176-1278&1559-1621	-10

All the above data are based on specified demo board and tested in 25° environment.

Port Configuration

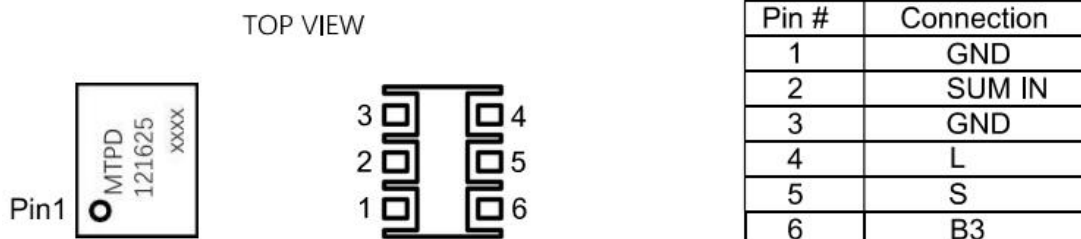


Figure 1 MTPD121625D65 Port Configuration

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Function Diagram

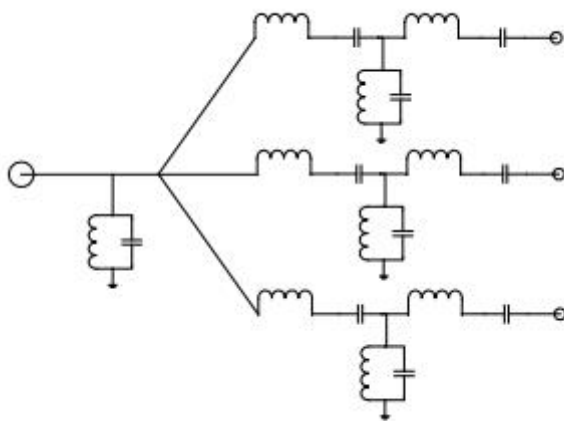


Figure 2 Function Diagram

Typical Performance (25°C)

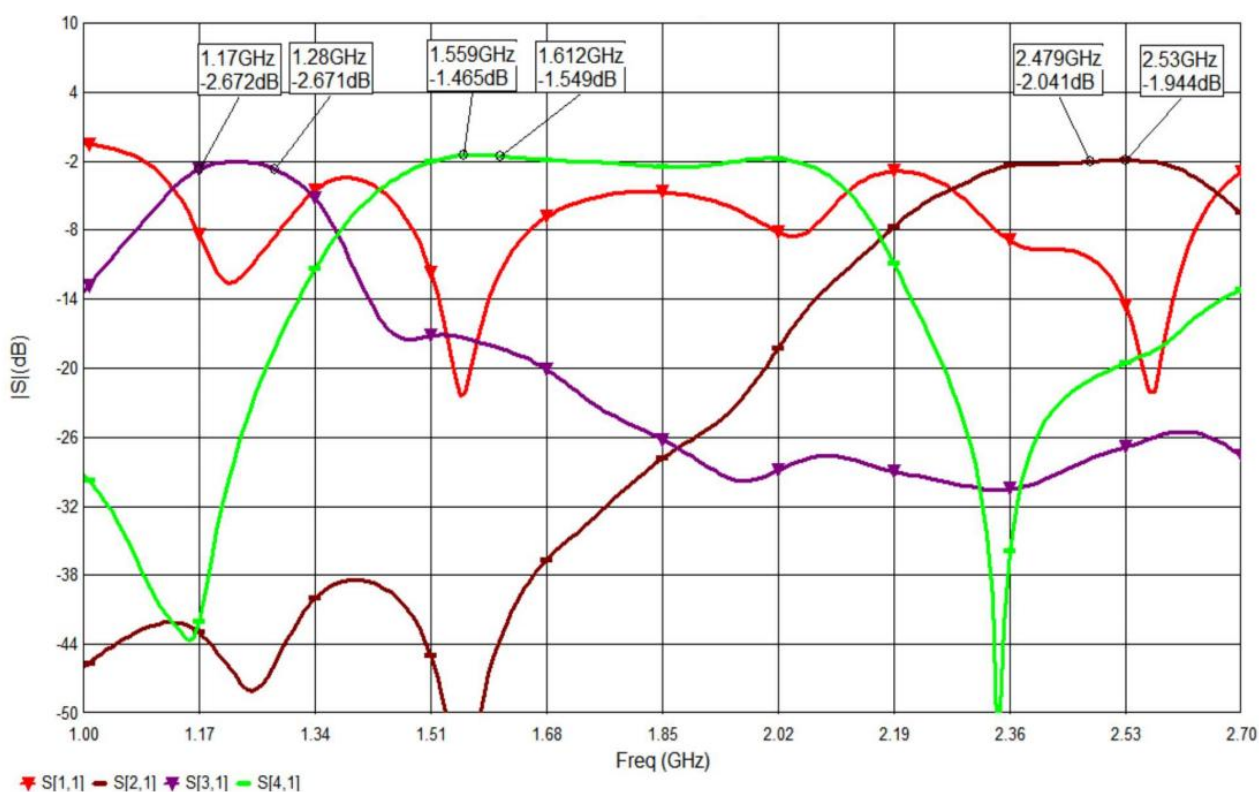


Figure 3 Test plot of return loss, insertion loss and attenuation

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Outline Drawing

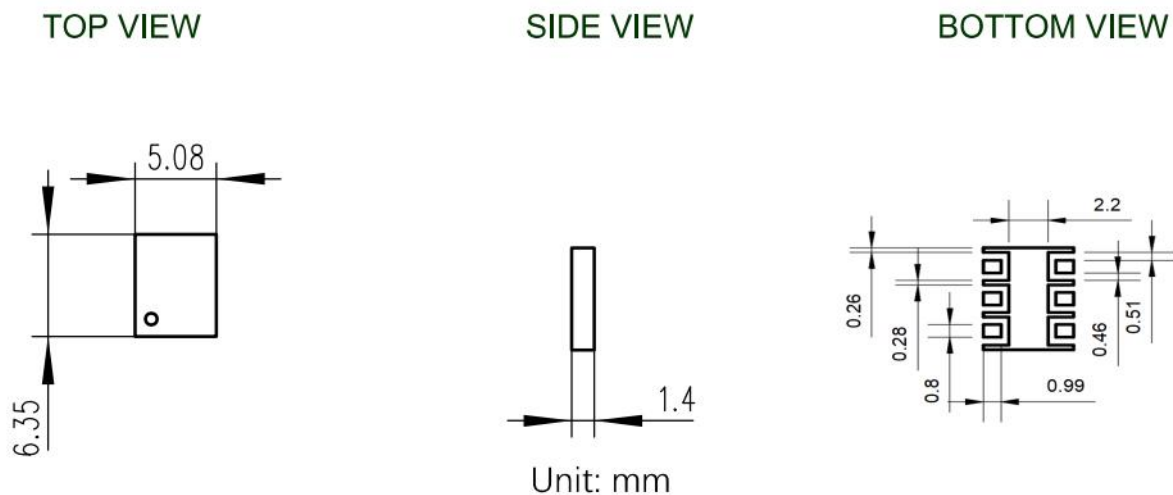


Figure 4 Plot of outline drawing

Reflow Profile

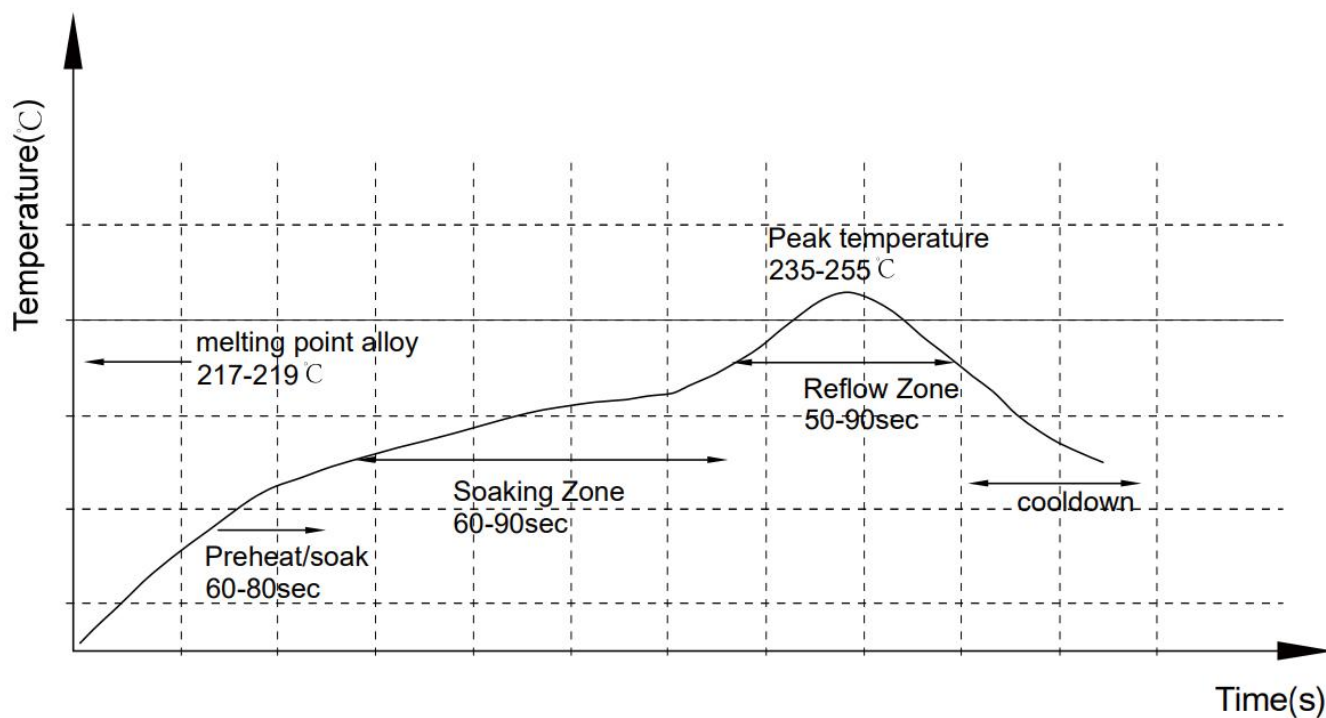


Figure 5 Thermal reflow profile

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	Ramp Up	Pre-Heating	Peak	Soaking
Temperature(°C)	T1:160±5°C	T2:180±5°C	T4:260±5°C	T3:230±5°C
Time(sec)	t1:60±5sec	t2:100±15sec	t3:30±5sec	t4:60±10sec

Packaging and Ordering Information

Device	Package	Reel	Shipping
MTPD121625D62	DFN6.35*5.08	7"	1000/Tape & Reel

Revision	Description	Date
Rev0	Preliminary	2020/3/29
Rev1	Update	2021/6/9
Rev2	Update	2026/3/12
Rev3	Update	2026/3/20

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