

MTPD121625D65

Beidou Multiplexer Filter

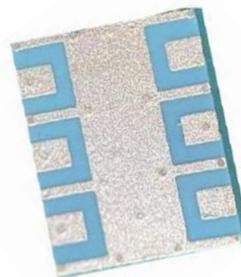


Applications

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

Features

1. Low Insertion Loss 3dB typ based on LTCC.
2. High Isolation, 15 dB typ.
3. Small Size 6.05 X 5.08 X 2.0mm³
4. Excellent high-power capacity up to average 30 watts



Description

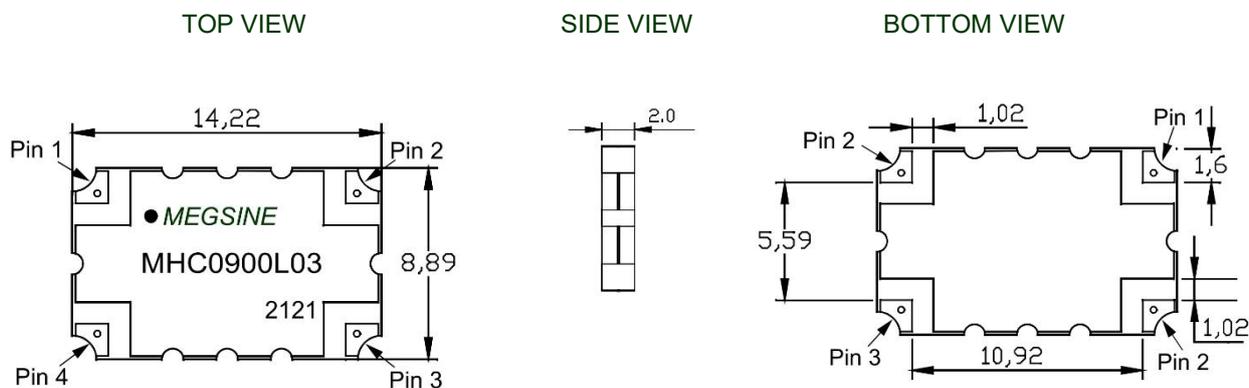
The MTPD121625D65 is a high performance band pass multiplexer filters in an easy to use surface mount package. It can be used where need three band pass filters and a triplexer. It is easy to use with small PCB space. The MTPD121625D65 is constructed from LTCC which possess excellent electrical and mechanical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

Characteristics 1)

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

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

Outline Drawing



Unit: mm

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Function Diagram (-55°C, 25°C, 95°C, 125°C: 1150-1630 MHz)

Iso

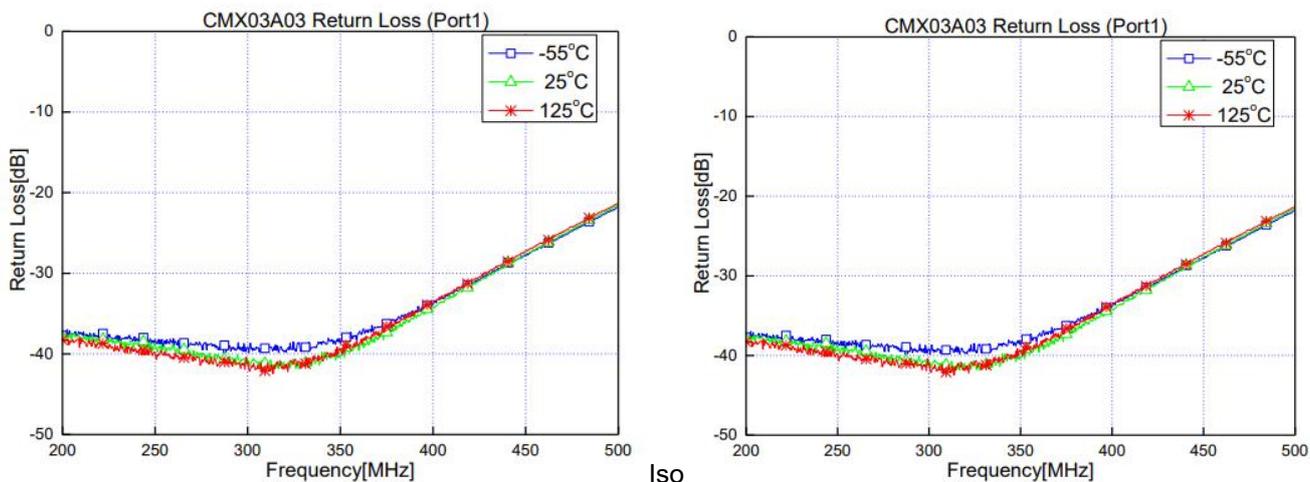


Figure 2. Test Plots of Return Loss (-55 °C, 25 °C, and 125 °C)

Figure 4. Test Plots of Coupling and Transmission Loss, Insertion Loss, Isolation, and Phase Balance (-55 °C, 25 °C, and 125 °C)

Return Loss3

Return Loss3

Characteristics

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Figure 8. Recommended PCB Layout and Solder Mask Pattern

REFLOW PROFILE

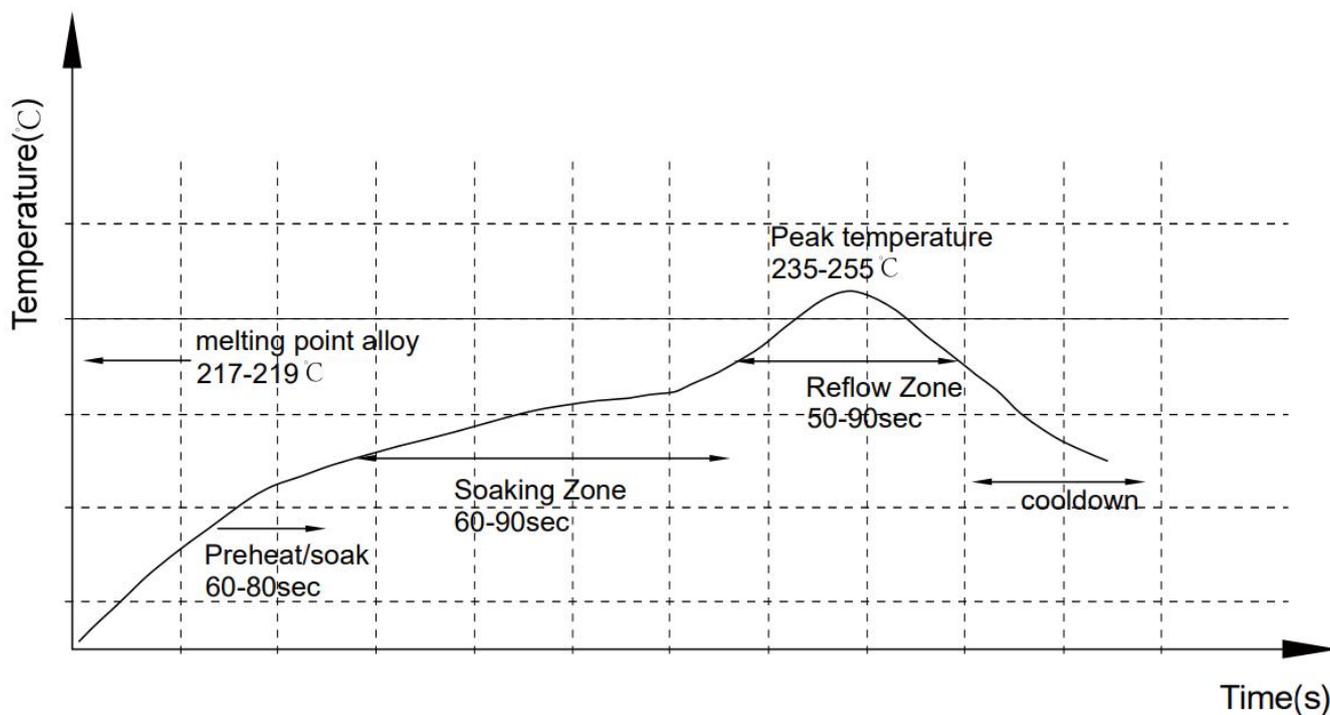


Figure 12. Thermal Reflow Profile

	Ramp Up	Pre-Heating	Peak	Soaking
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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

Parts are available in reel and are packaged per EIA 481-2. Parts are oriented in tape and reel as shown below. Minimum order quantities are 4000 per reel. See Model Numbers below for further ordering information.

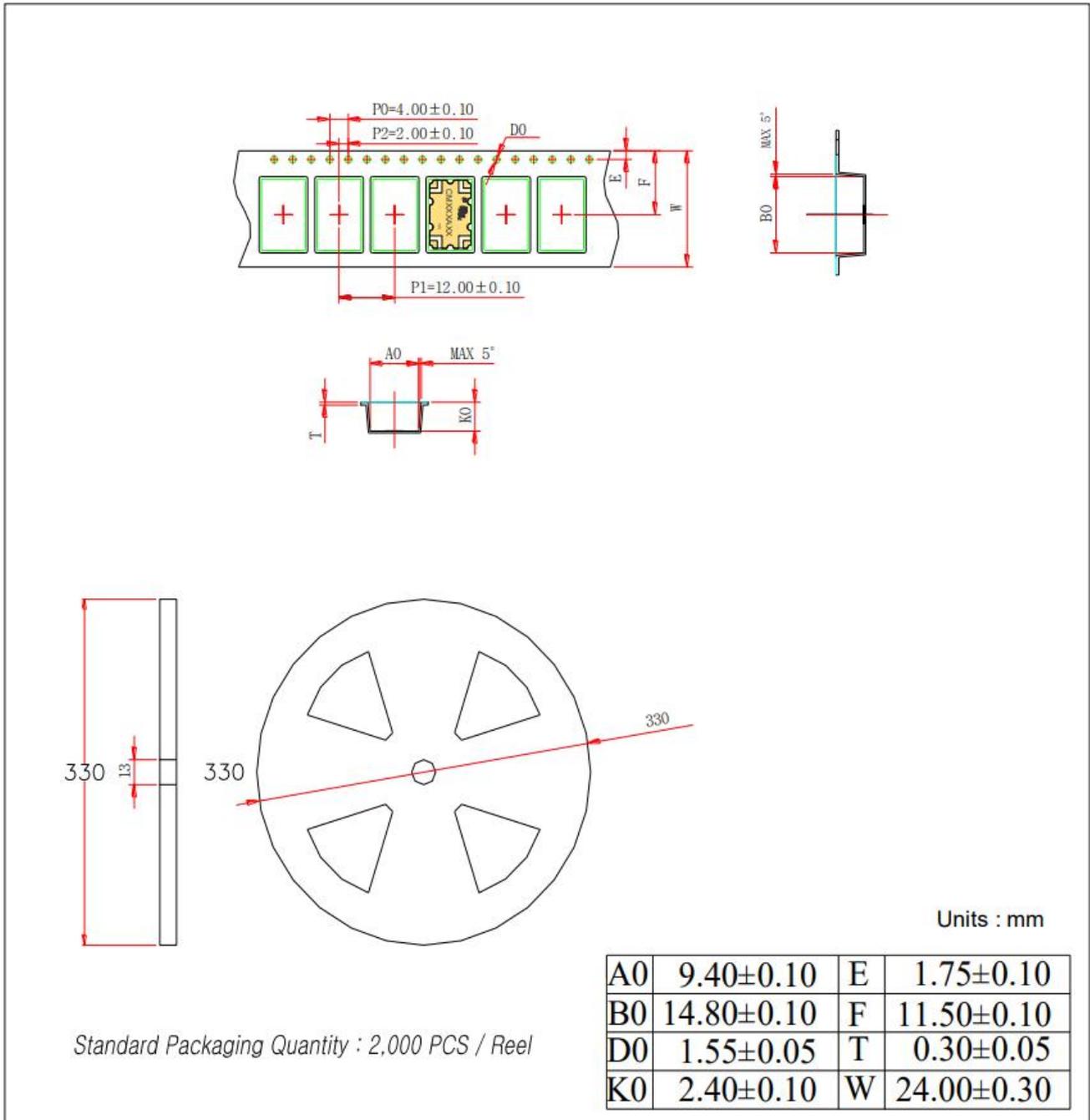
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Revison	Description	Date
Rev0	Preliminary	2020/3/29
Rev1	Update	2021/6/9
Rev2	Update	2026/3/12

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