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Fax: +44 1460 256 101
www.golledge.com

Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

SAW Filter 725.50MHz — Model: TA2547A
Part No: MP11458 — Rev. No: 1

A. MAXIMUM RATING:

Electrostatic **S**ensitive **D**evice **(ESD)**

1. Input Power Level: 10dBm
2. DC Voltage: 0V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -30°C to +85°C
5. Moisture Sensitive Level: Level 3 (MSL3)

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance: Z_S = 50Ω
2. Terminating load impedance: Z_L = 50Ω

Item	Unit	Min.	Typ.	Max.
Center Frequency	MHz	-	725.5	-
Insertion Loss (703 ~ 748 MHz)	dB	-	2.4	3.0
Amplitude ripple (703 ~ 748 MHz)	dB	-	1.7	2.5
VSWR (703 ~ 748 MHz)	-	-	1.9	2.2
Attenuation				
0010 ~ 0650 MHz	dB	15	18	-
0758 ~ 0763 MHz	dB	15	20	-
0763 ~ 0803 MHz	dB	18	21	-
0803 ~ 1500 MHz	dB	10	17	-
1500 ~ 3000 MHz	dB	15	22	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

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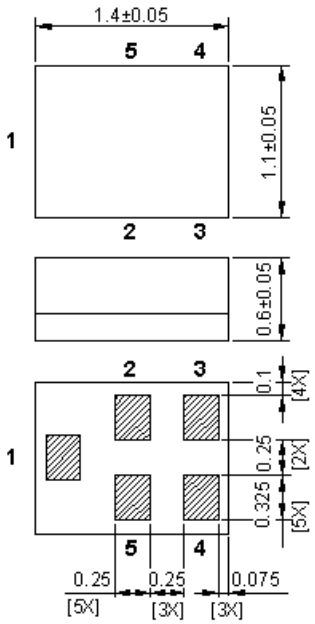
C. OUTLINE DRAWING:



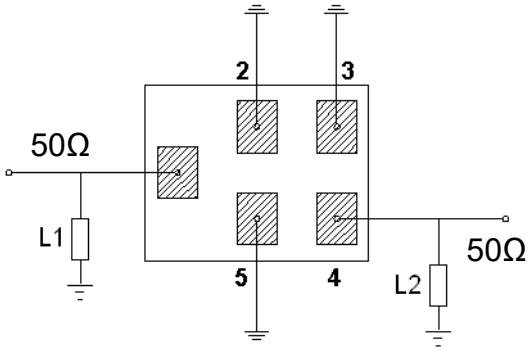
All tolerances are +/-0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.
1 to 5 : Pin No.
Unit : mm

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

D. MEASUREMENT CIRCUIT:

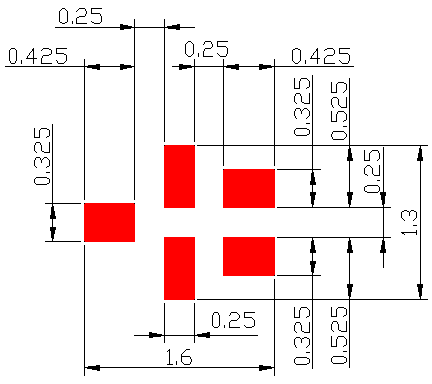
*By Network analyzer simulation matching with port extension

1: Unbalance Port
4: Unbalance Port
Others: Ground



L1 = L2 = 10 nH

E. PCB FOOTPRINT:



: Land Pattern
Unit : mm

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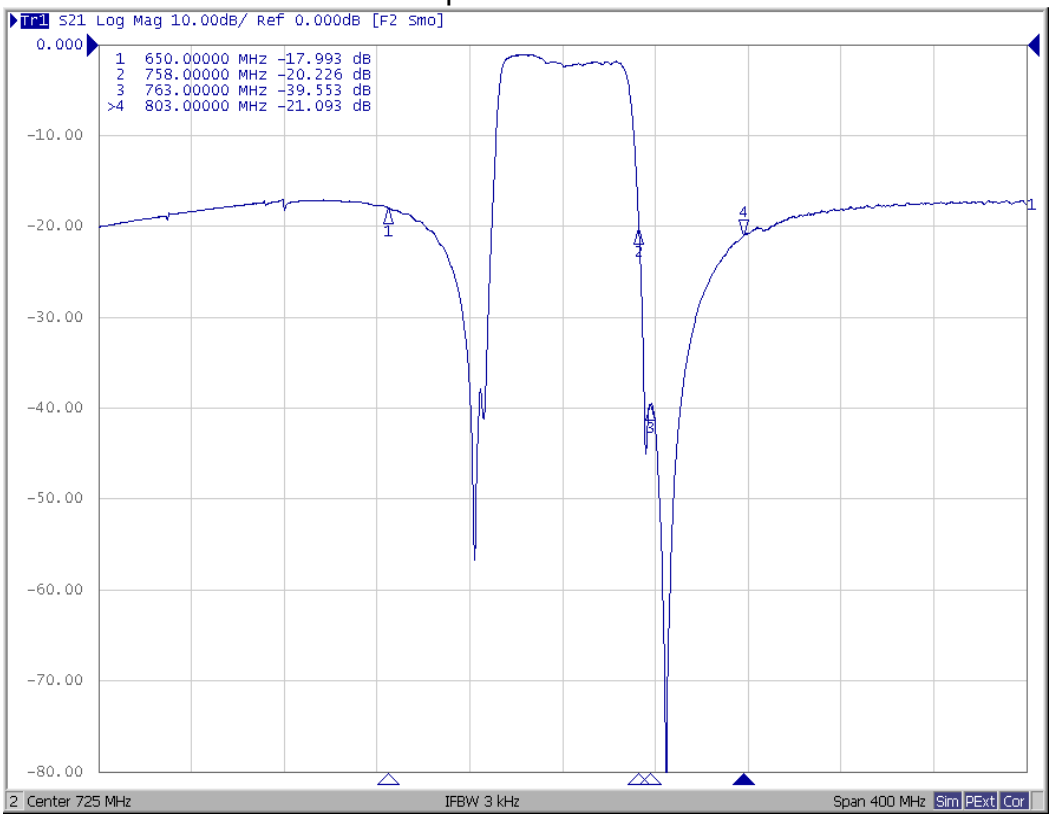
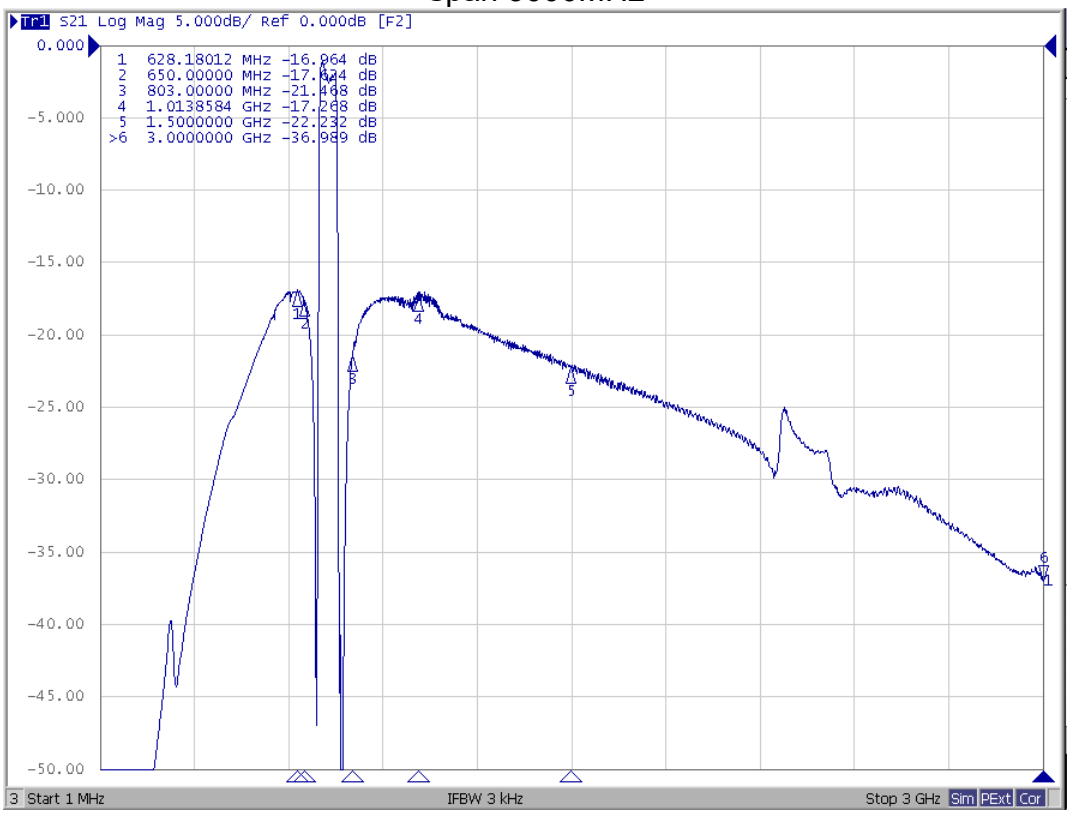
F. FREQUENCY CHARACTERISTICS:

Span 400MHz



Span 3000MHz



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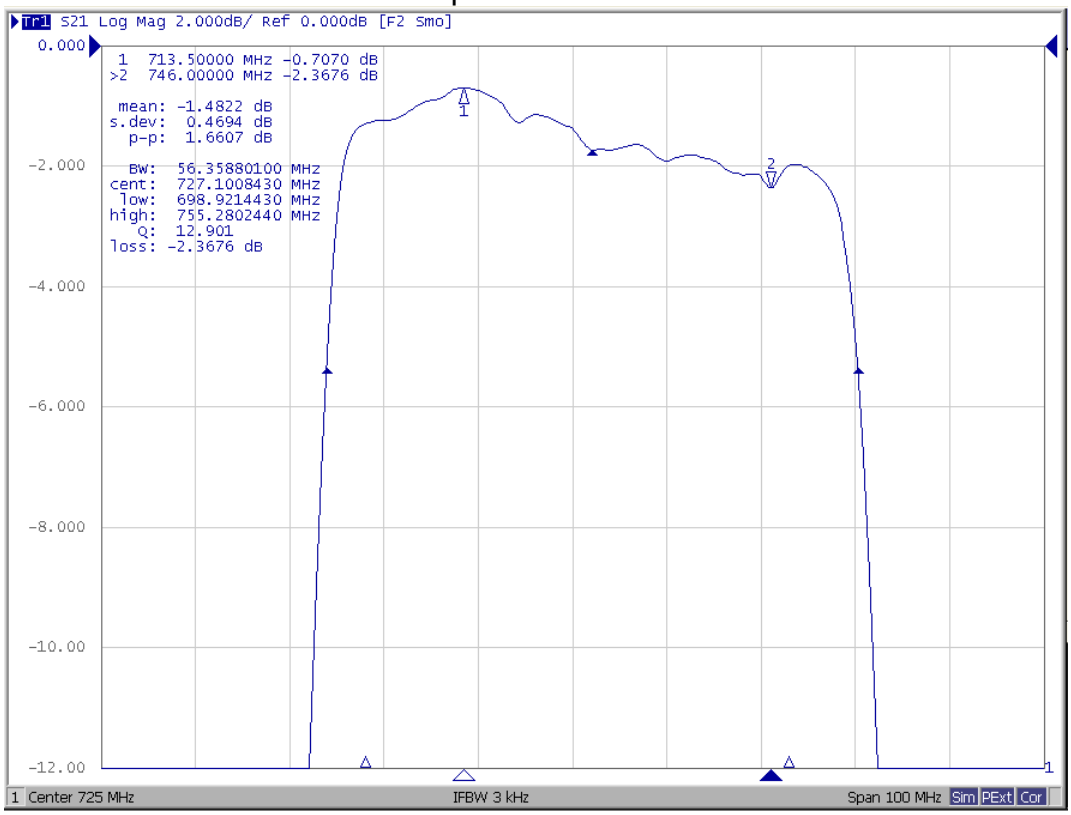
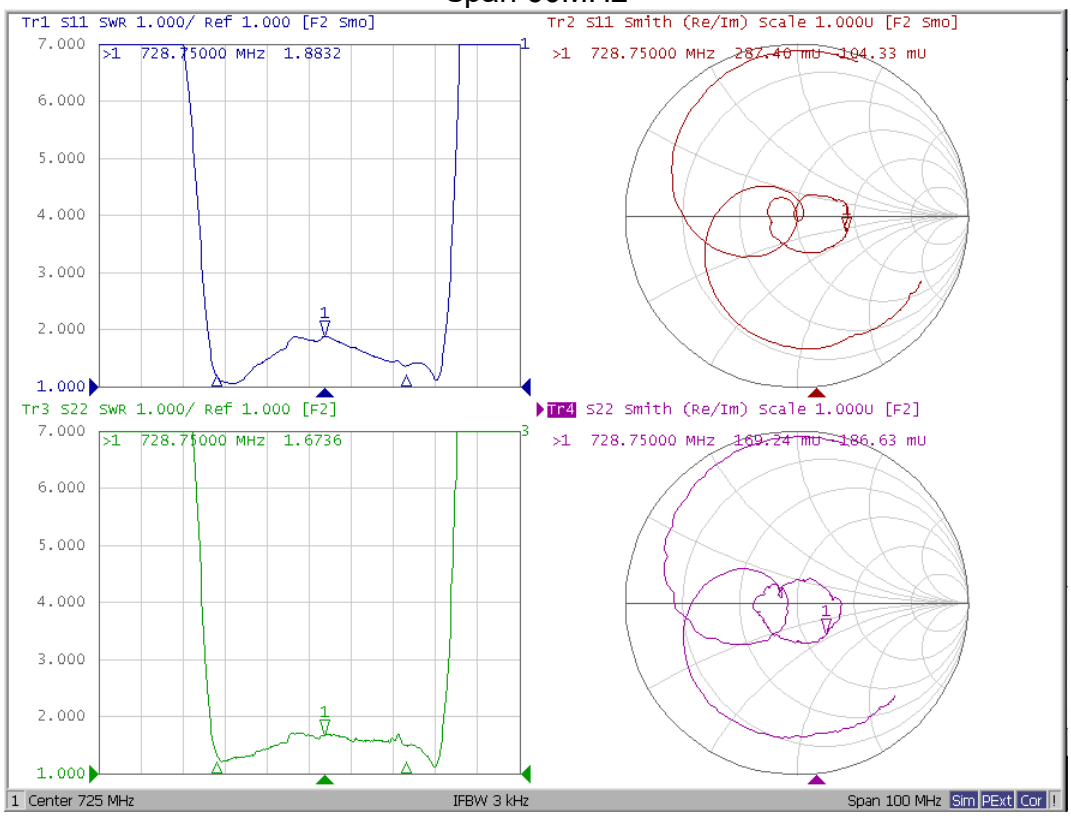
Part No: MP11458 — Rev. No: 1

Span 100 MHz



Reflection Functions:

Span 60MHz



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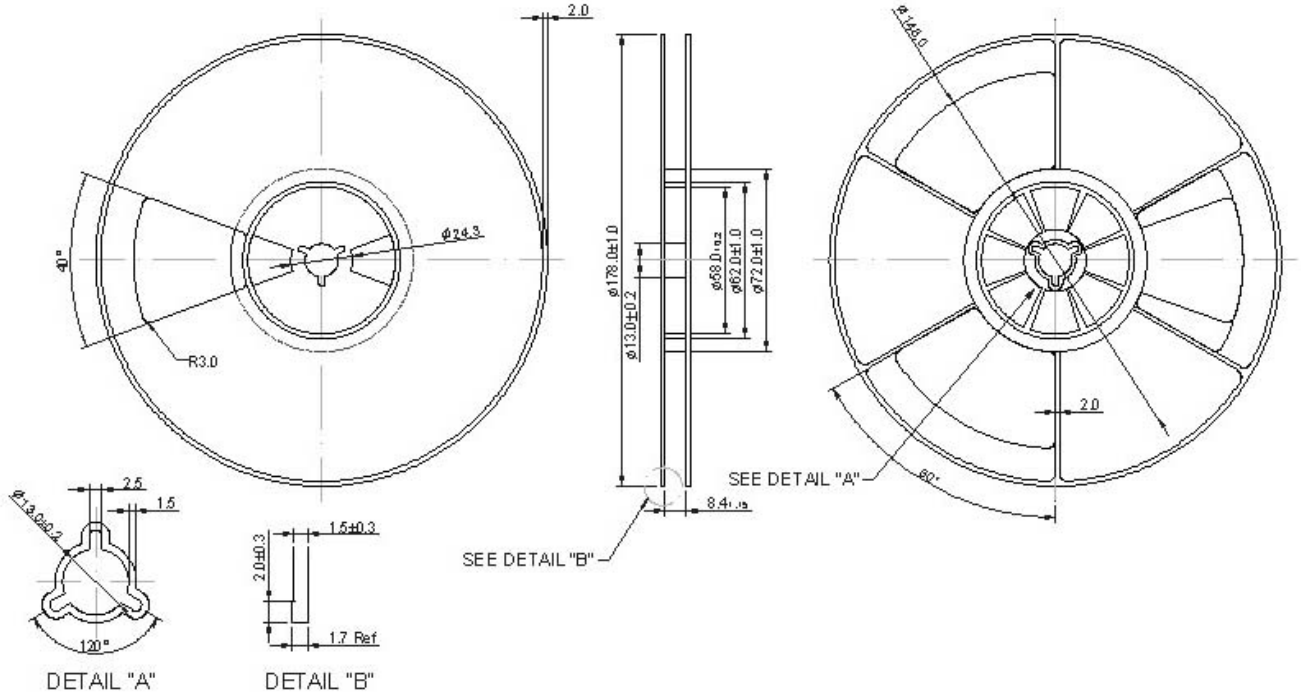
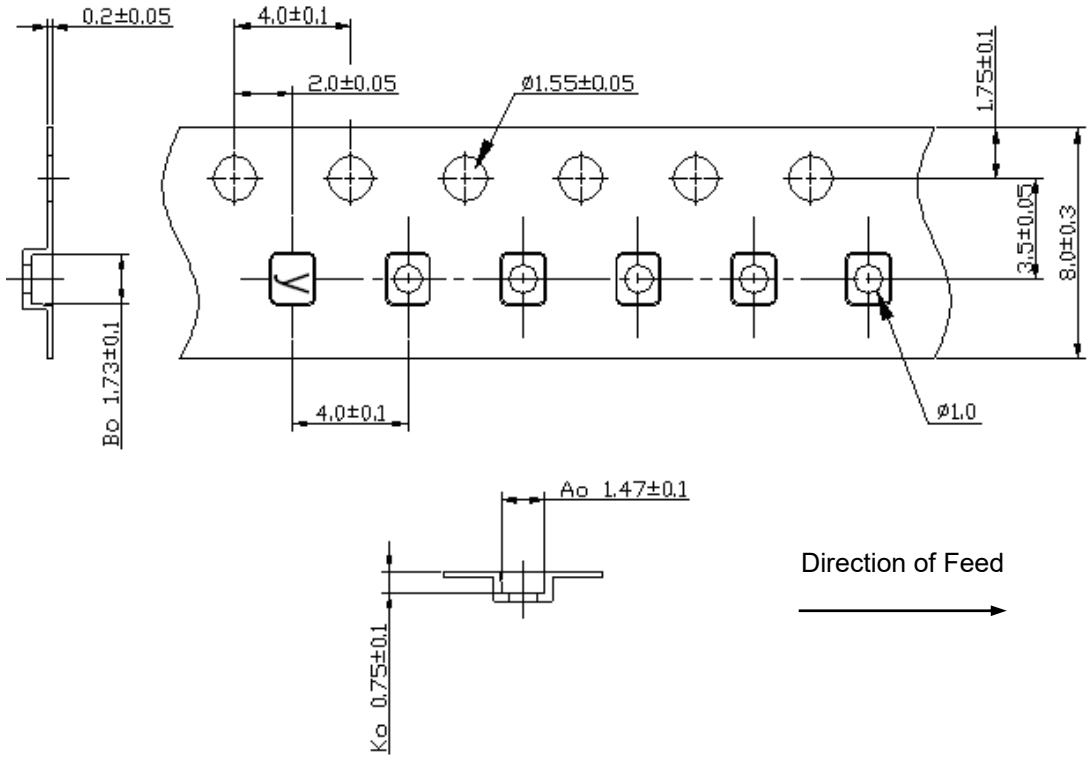
G. PACKING:

1. Reel Dimensions



2. Tape Dimensions



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H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (20~40 sec).
4. Time: 2 times.