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www.golledge.com

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

SAW Filter 1582.40MHz — Model: TA1658B
Part No: MP09199 — Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 15dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitive Level: Level 1 (MSL1)

B. ELECTRICAL CHARACTERISTICS:

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

Parameters Description		Unit	Min.	Typ.	Max.
Center Frequency Fc		MHz	-	1582.4	-
Insertion Loss	1574.42 ~ 1576.42MHz	dB	-	1.2	2.0
	1559.05 ~ 1563.15MHz	dB	-	1.7	2.2
	1573.37 ~ 1577.47MHz	dB	-	1.3	2.0
	1597.78 ~ 1605.66MHz	dB	-	1.5	2.0
Group Delay Ripple	1597.55 ~ 1605.89MHz	ns	-	5	12
VSWR	1574.42 ~ 1576.42MHz	-	-	1.6	2.0
	1559.05 ~ 1563.15MHz	-	-	1.3	2.0
	1573.37 ~ 1577.47MHz	-	-	1.7	2.0
	1597.78 ~ 1605.66MHz	-	-	1.4	2.0
Attenuation (Reference level from 0dB)					
10 ~ 824MHz		dB	30	38	-
824 ~ 925MHz		dB	30	37	-
1427 ~ 1453MHz		dB	40	47	
1710 ~ 1785MHz		dB	37	45	-
1850 ~ 1910MHz		dB	38	47	-
1920 ~ 1980MHz		dB	39	49	-
2400 ~ 2500MHz		dB	35	45	-
2500 ~ 2570MHz		dB	37	45	-
2600 ~ 3000MHz		dB	20	41	-

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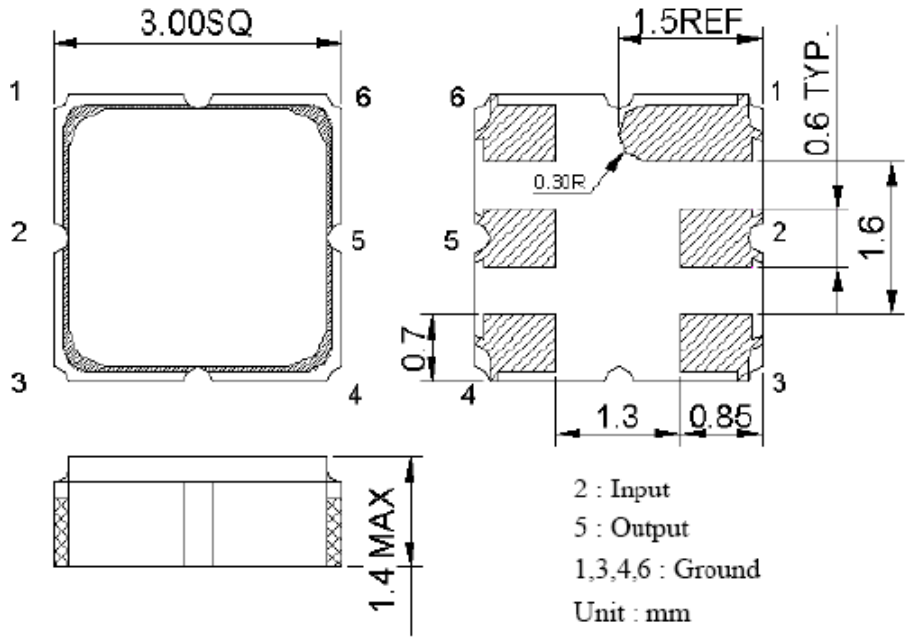
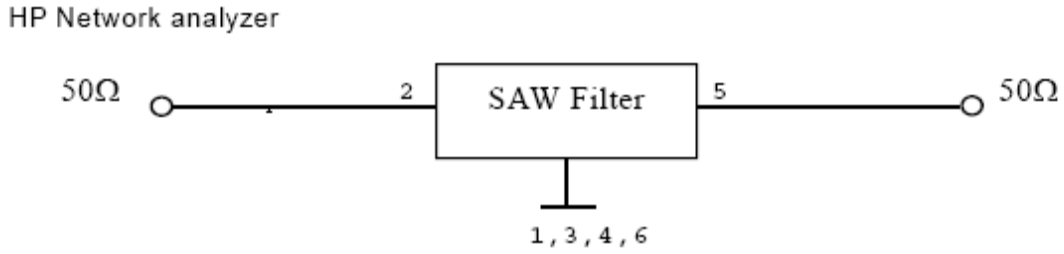
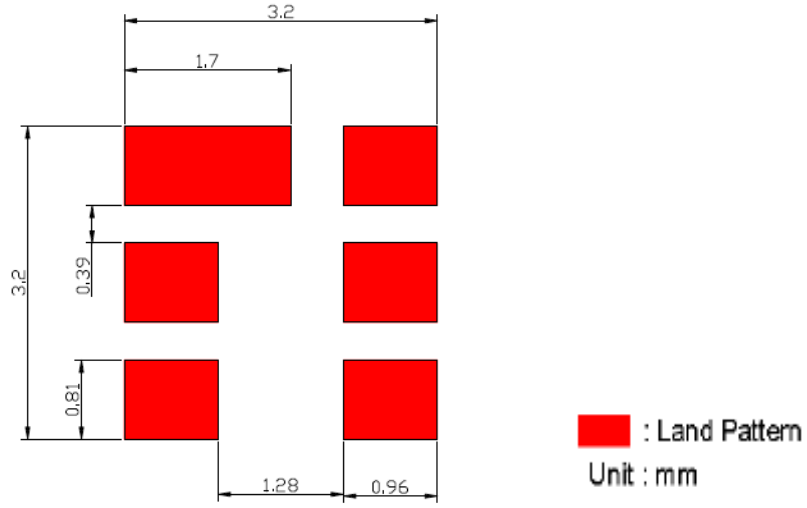
C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



E. PCB FOOTPRINT:



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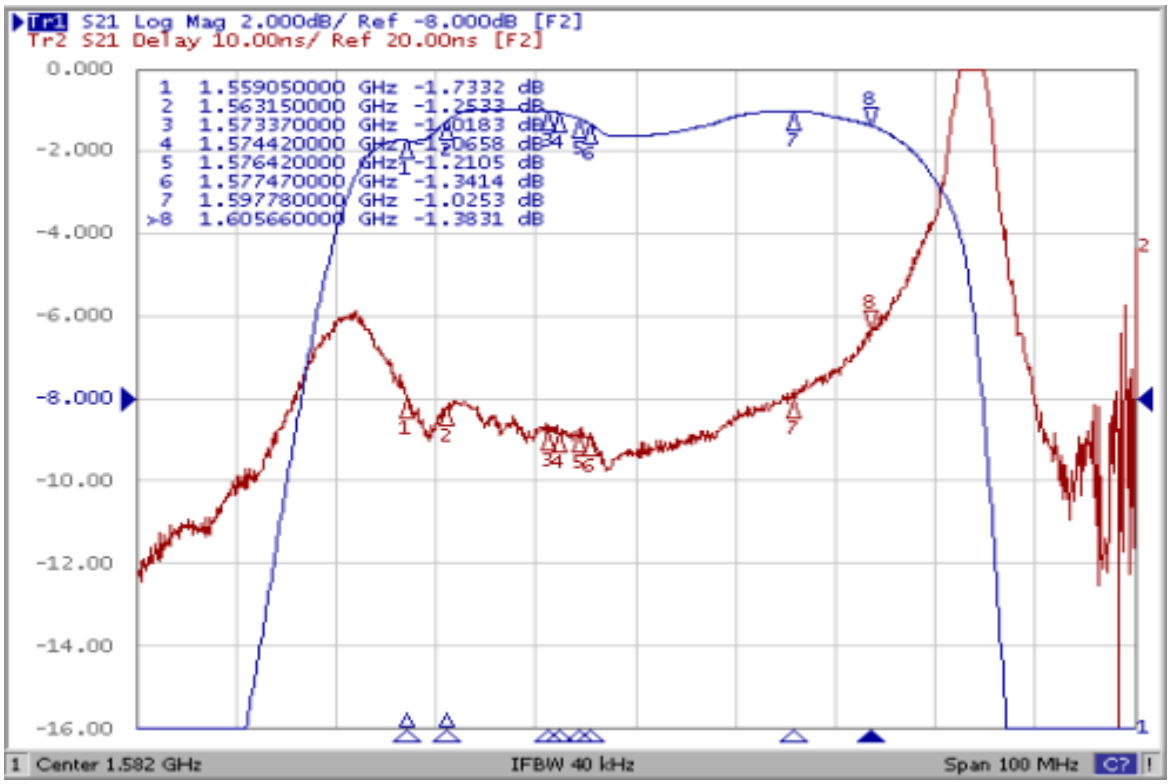
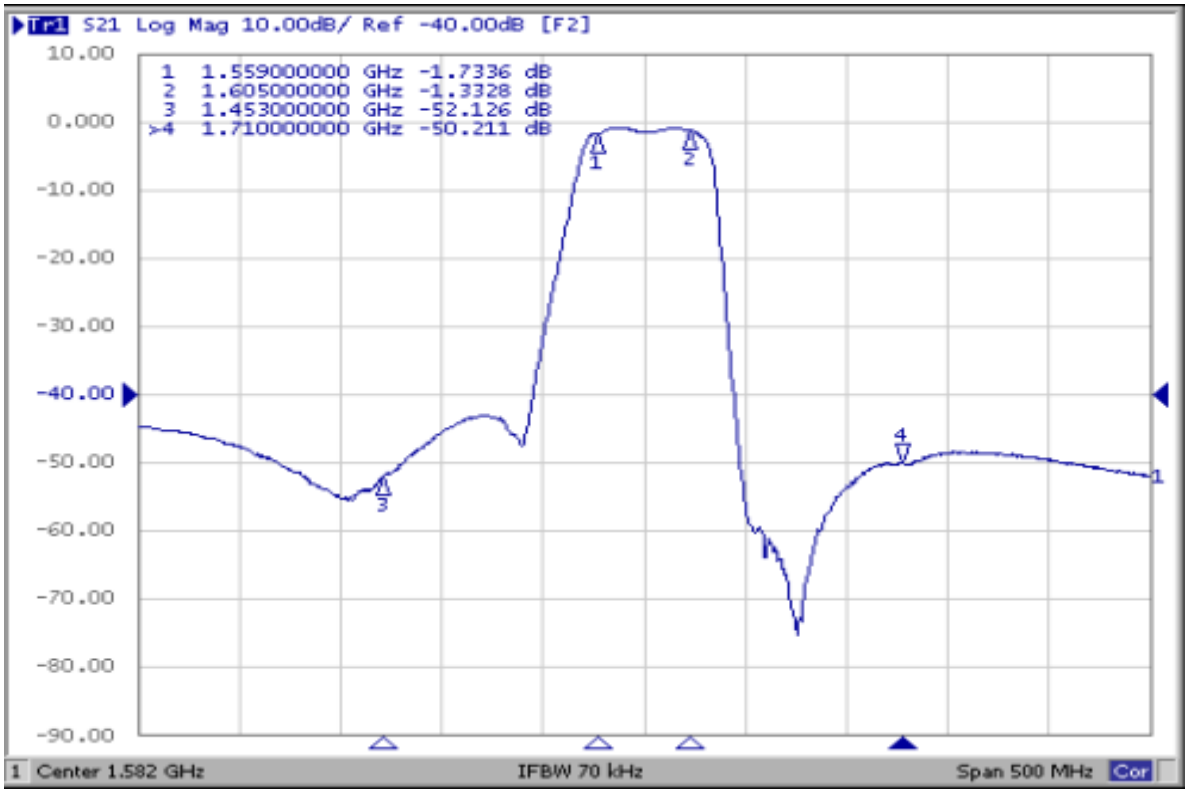
F. FREQUENCY CHARATERISTICS:





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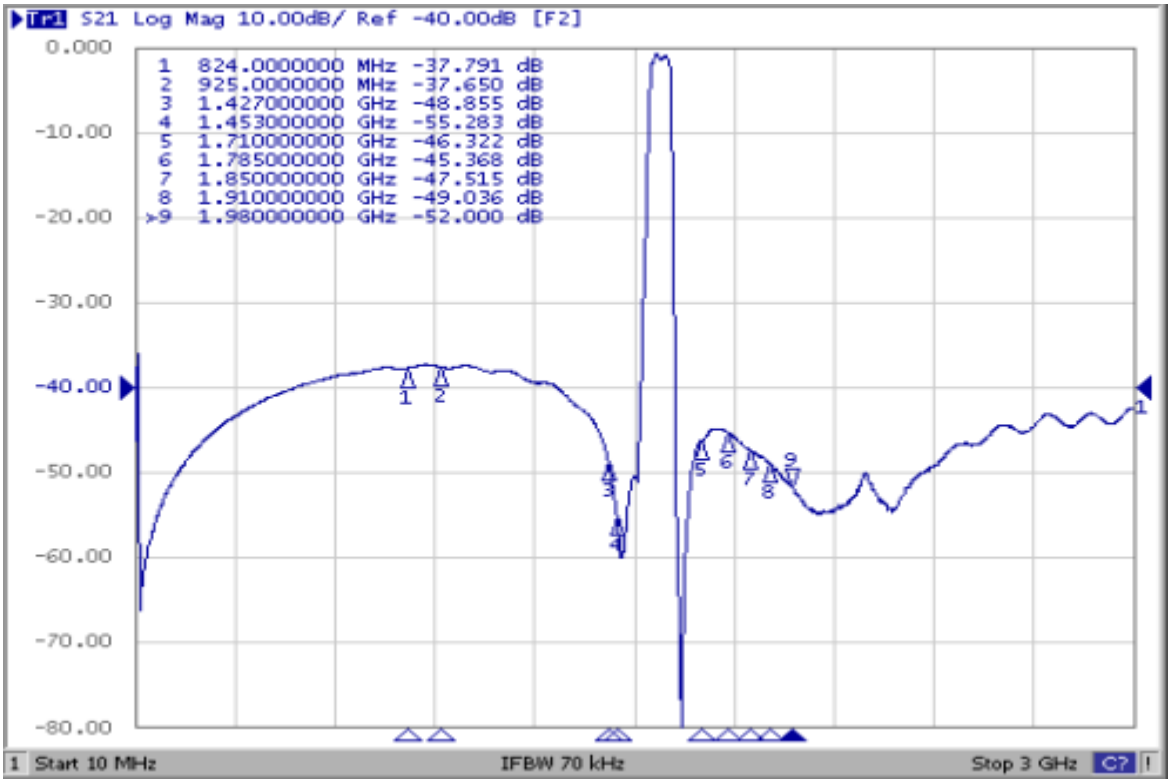

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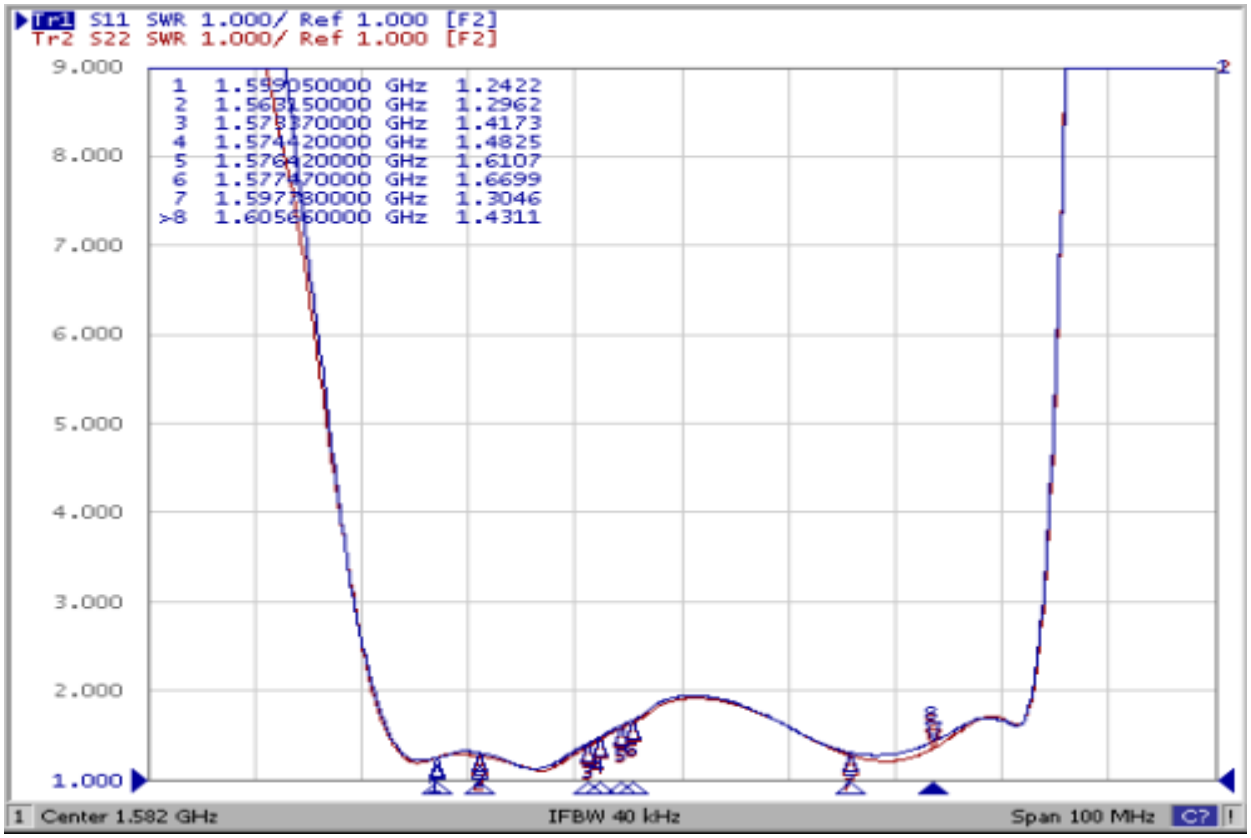
Reflection Functions

VSWR



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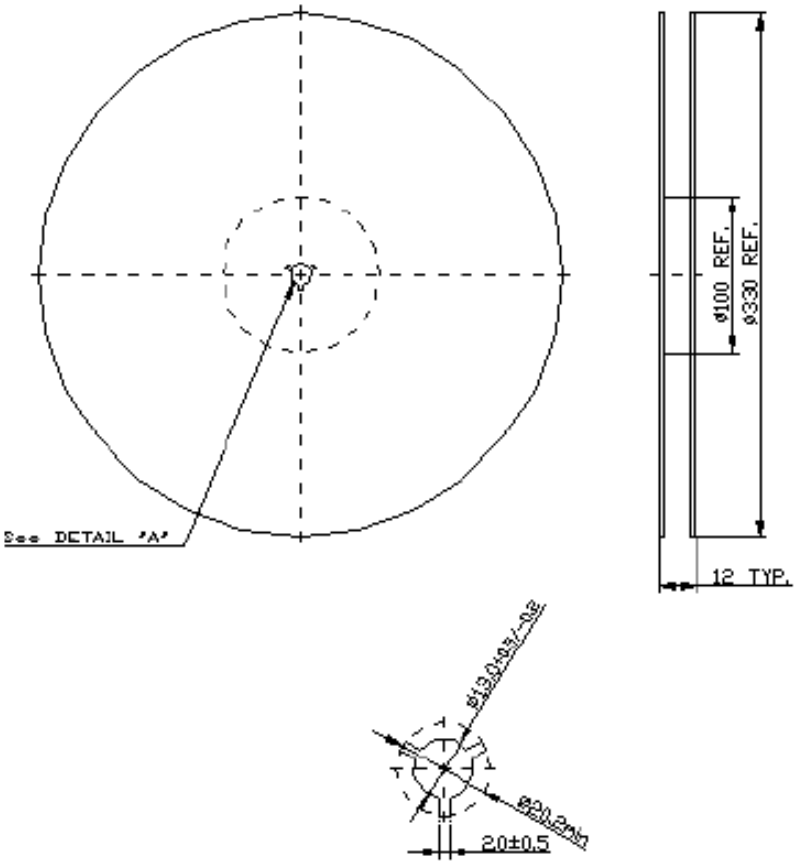
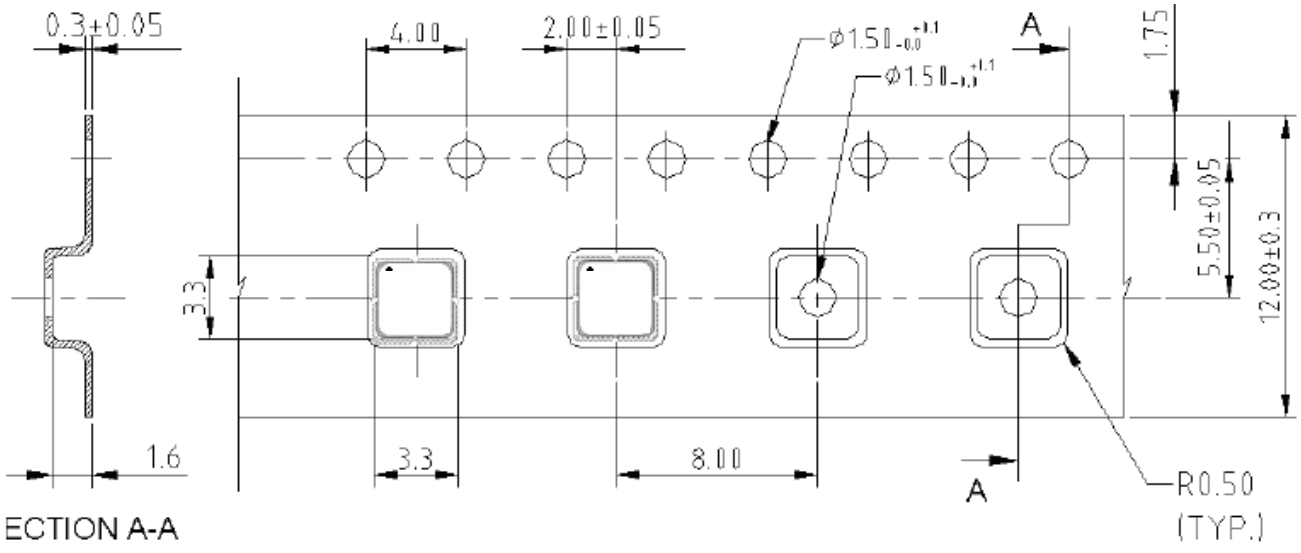
G. PACKING:

1. Reel Dimension



2. Tape Dimension



Direction of Feed

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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.