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

SAW Filter 1090.0MHz — Model: TA0970B
Part No: MP08167 — Rev No: 1

A. MAXIMUM RATING:

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

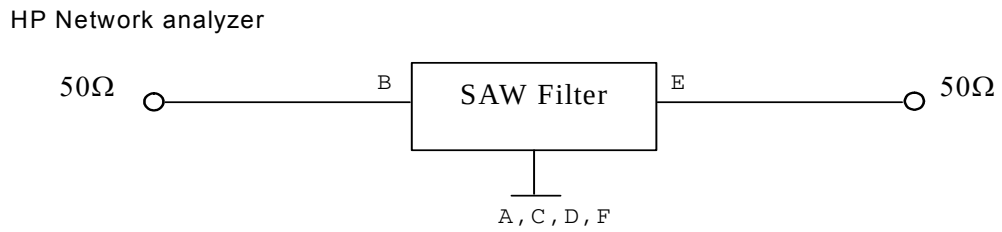
1. Input Power Level: 20dBm
2. DC voltage: 3V
3. Operating Temperature: -55°C to +100°C
4. Storage Temperature: -55°C to +105°C

B. ELECTRICAL CHARACTERISTICS:

Characteristics (at 25°C)	Min.	Typ.	Max.
Center frequency Fc (MHz)	-	1090	-
Insertion loss within 1075 ~ 1105MHz IL (dB)	-	2.3	3.5
Amplitude ripple (p-p) within 1085 ~ 1095MHz (dB)	-	0.25	1.2
Attenuation (Reference level from 0dB)			
DC ~ 970MHz (dB)	25.0	30	-
1150 ~ 1300MHz (dB)	25.0	33.5	-
VSWR within 1075 ~ 1105MHz	-	1.8	2.3
Source impedance Z_S (Ω)	-	50	-
Load impedance Z_L (Ω)	-	50	-
Temperature Coefficient of Frequency ppm/℃	-	-36	-

Note 1: No matching network required for operation at 50 Ω

C. MEASUREMENT CIRCUIT:



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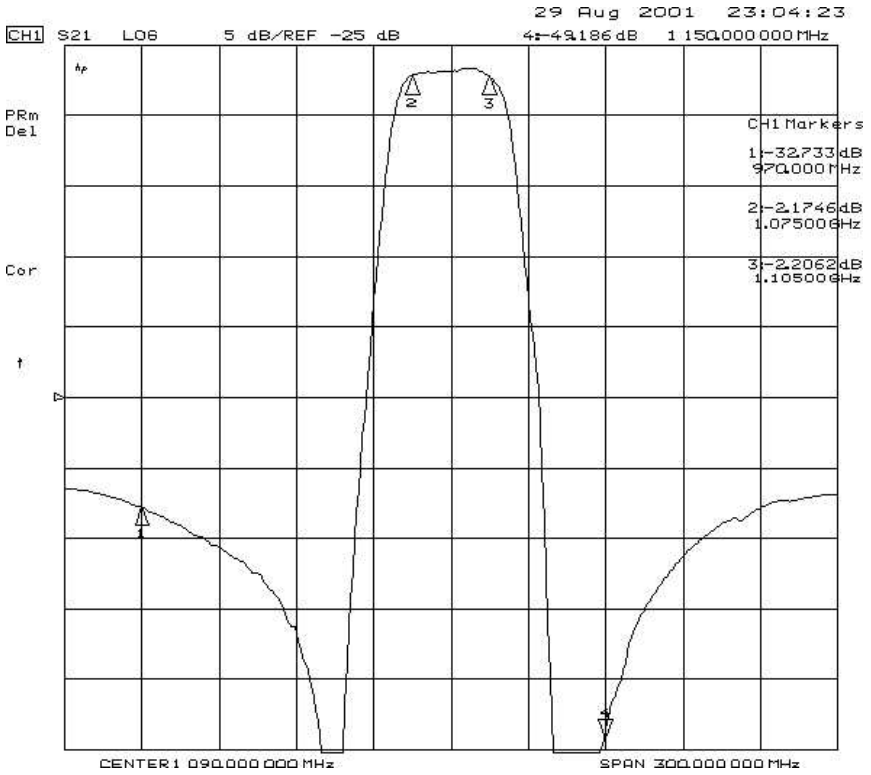
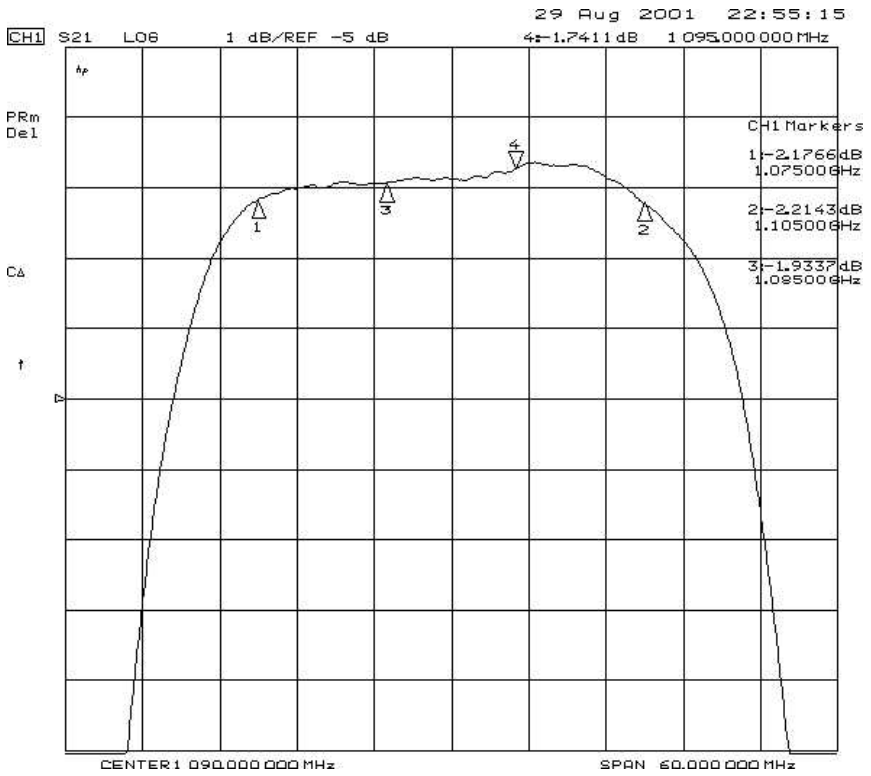
D. FREQUENCY CHARACTERISTICS:





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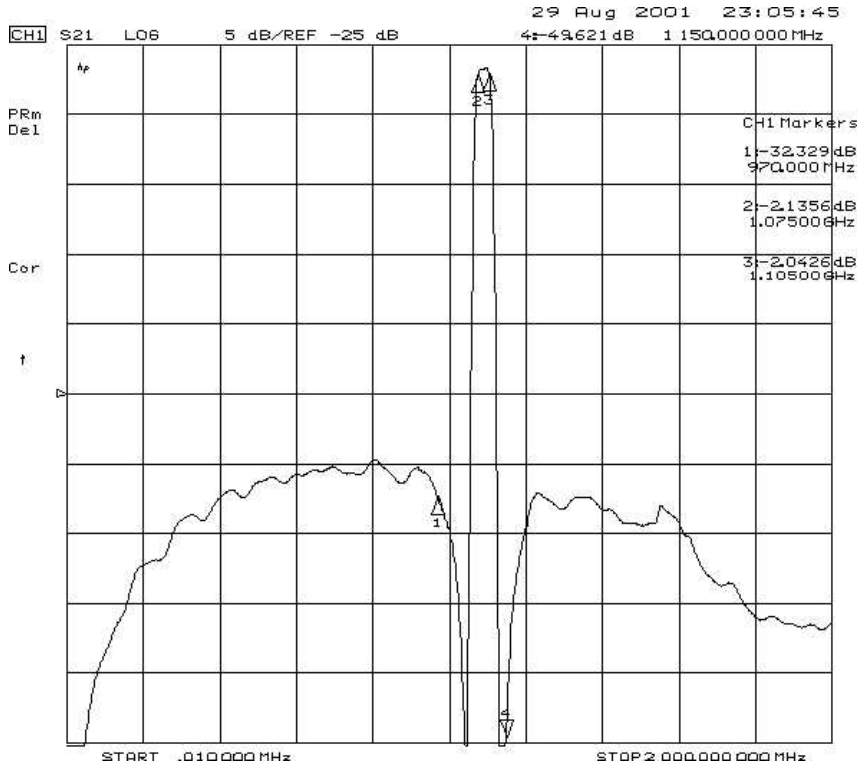
1. Wideband



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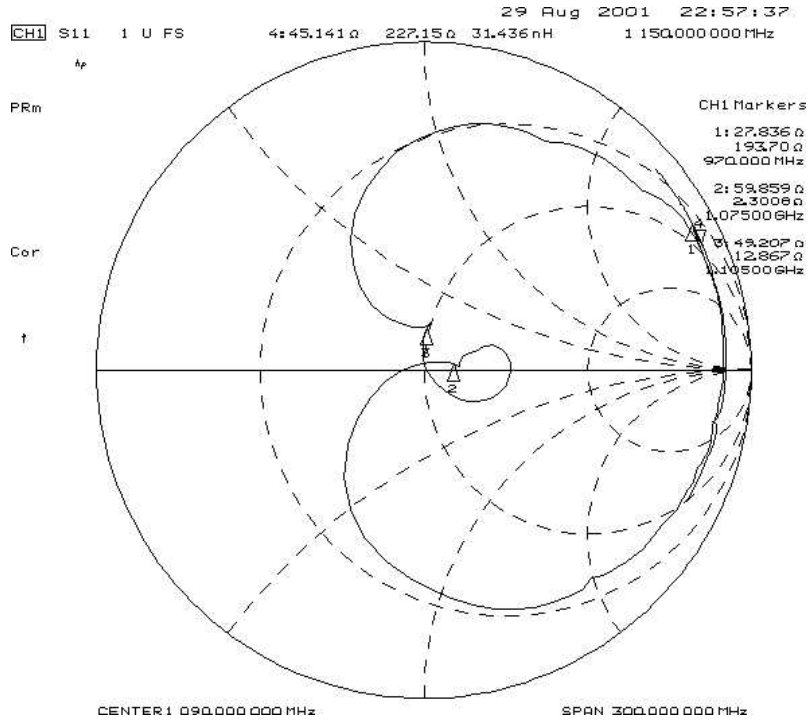
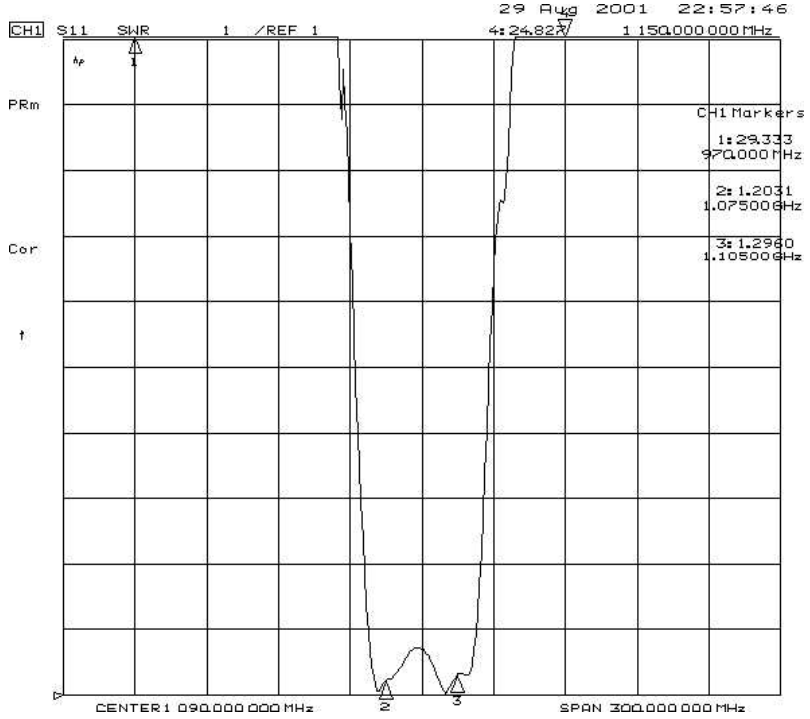
2. Reflection Functions

Smith Chart



VSWR



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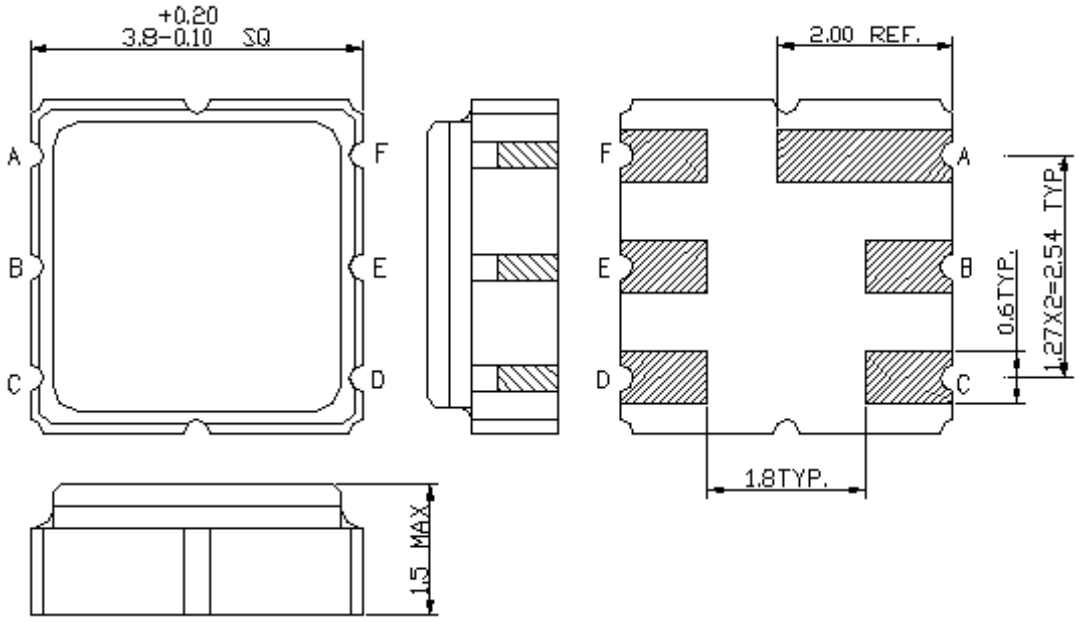
E. OUTLINE DRAWING:



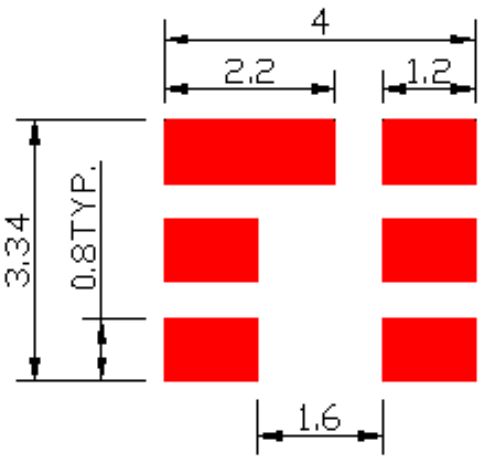
B: Input

E: Output

A, C, D, F: Ground

Unit: mm

F. PCB FOOTPRINT:



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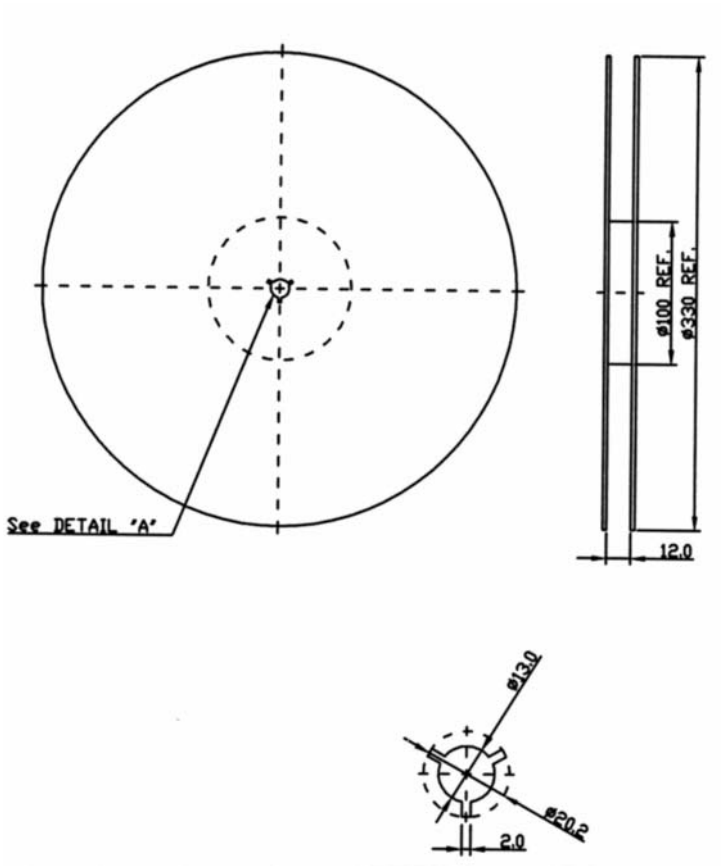
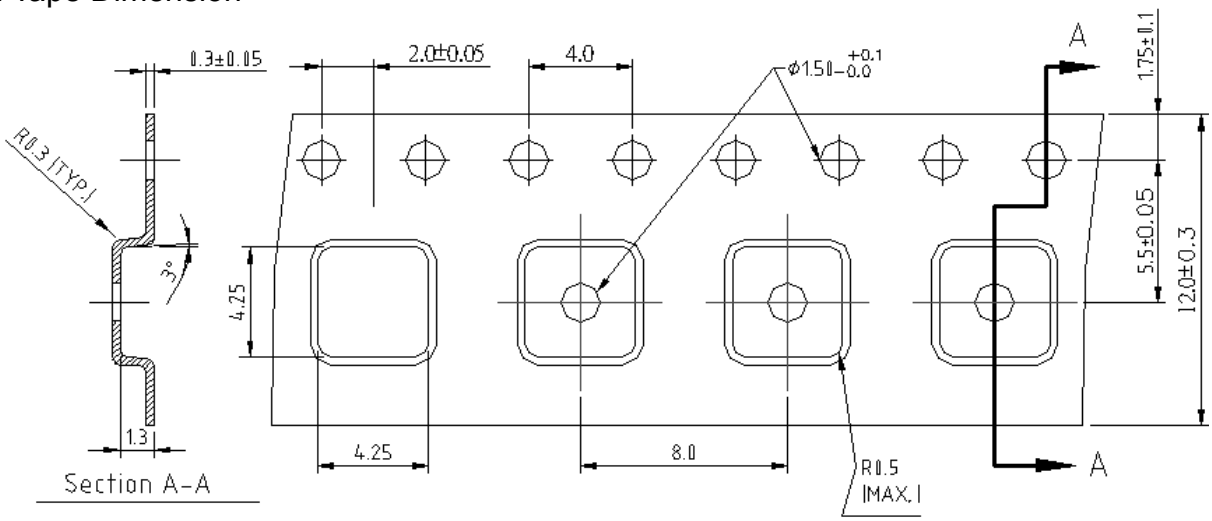
G. PACKING:

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.