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

SAW Filter 1128.0MHz — Model: TA1413A
Part No: MP03793 — Rev No: 1

A. MAXIMUM RATING:

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

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (single ended): Z_S = 50Ω
2. Terminating load impedance (single ended): Z_L = 50Ω

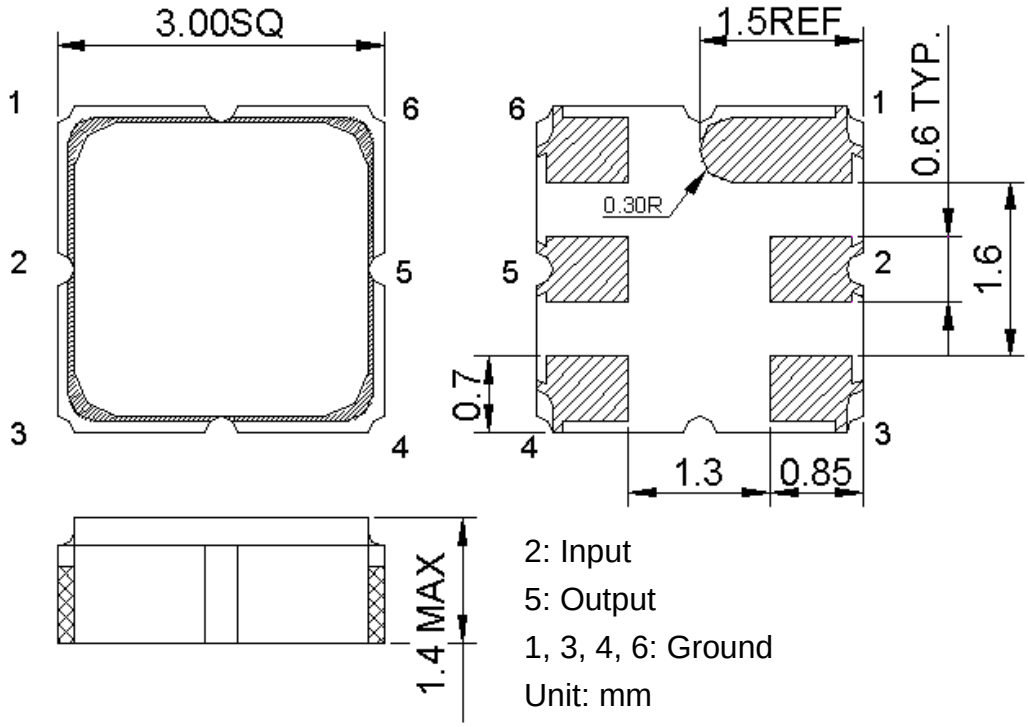
Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1128	-	-
Insertion Loss (1111 ~ 1145MHz)	dB	-	2.85	4	-
Amplitude Variation (1111 ~ 1145MHz)	dB	-	0.8	2	-
Amplitude Variation over 3MHz	dB	-	0.4	1	-
VSWR (1111 ~ 1145MHz)		-	2.1	2.4	-
Group Delay Variation over 3MHz	ns	-	5	20	-
Attenuation (reference level from 0dB)					
DC ~ 1090MHz	dB	30	47	-	-
1163 ~ 1190MHz	dB	6	19	-	-
1190 ~ 2000MHz	dB	30	44	-	-
Temperature Coefficient of Frequency	ppm/℃	-	-36	-	-

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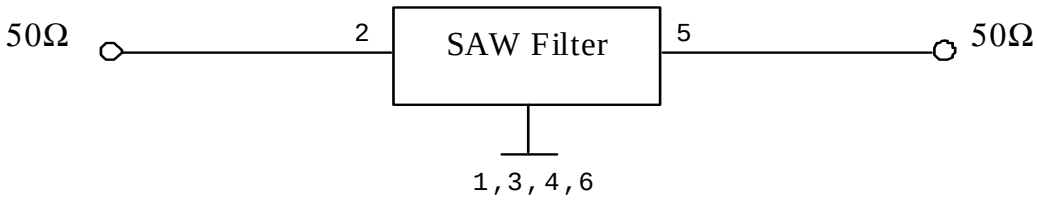
C. OUTLINE DRAWING:



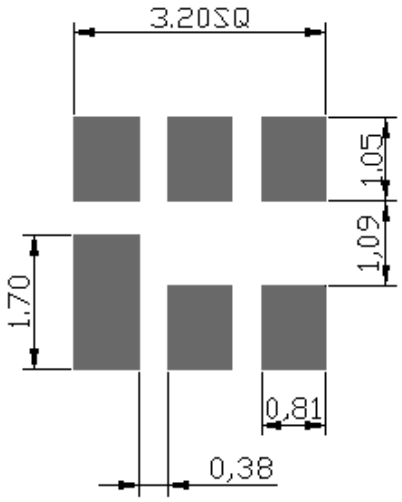
2: Input
5: Output
1, 3, 4, 6: Ground
Unit: mm

D. MEASUREMENT CIRCUIT:

HP Network analyzer



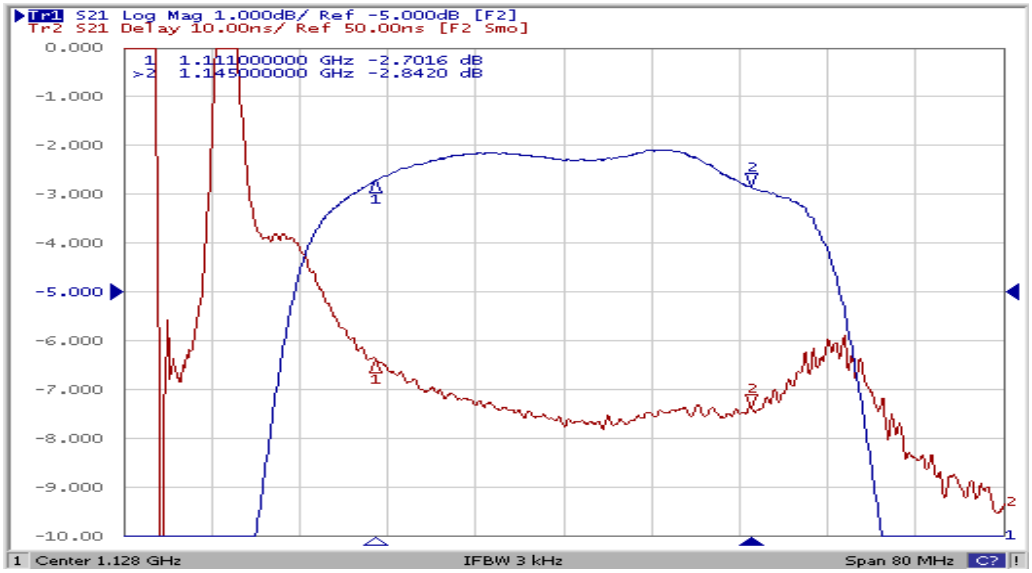
E. PCB FOOTPRINT:

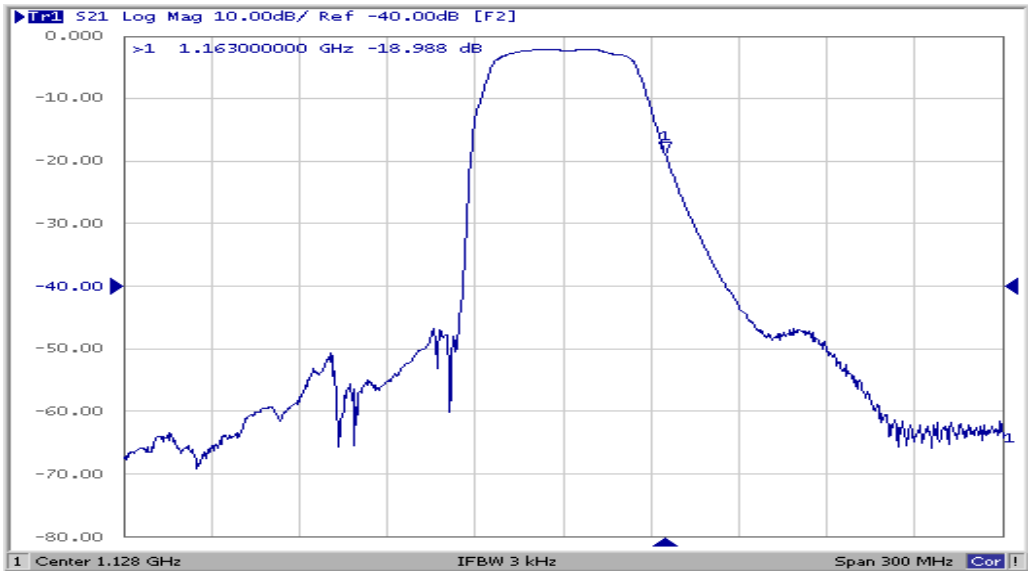


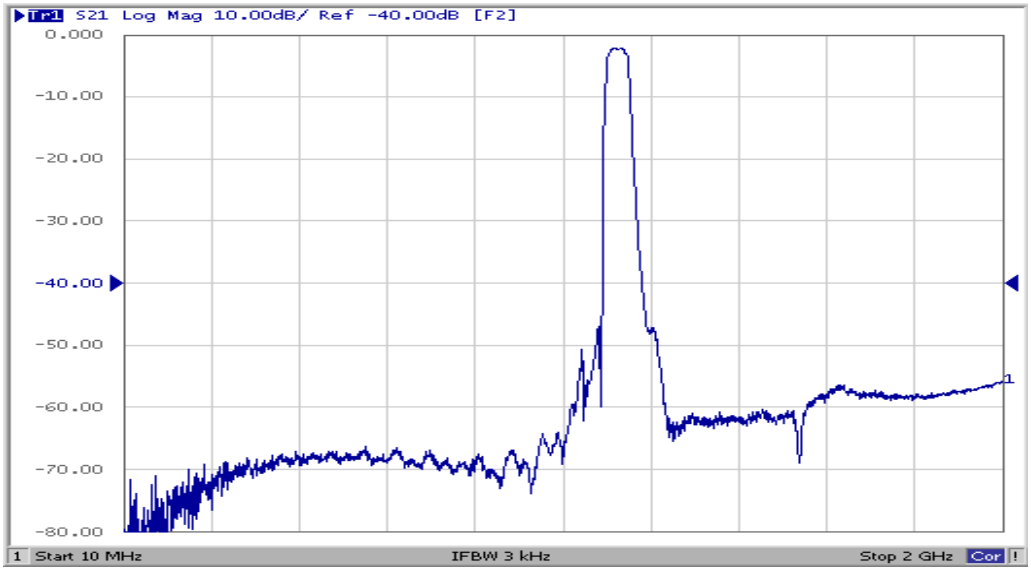
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F. FREQUENCY CHARACTERISTICS:







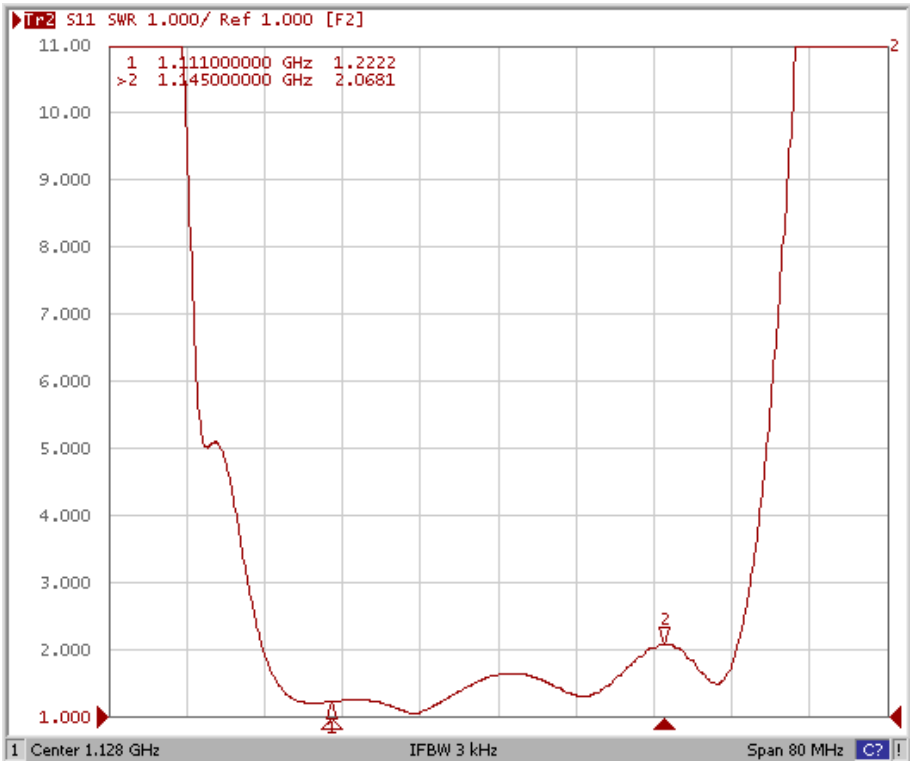
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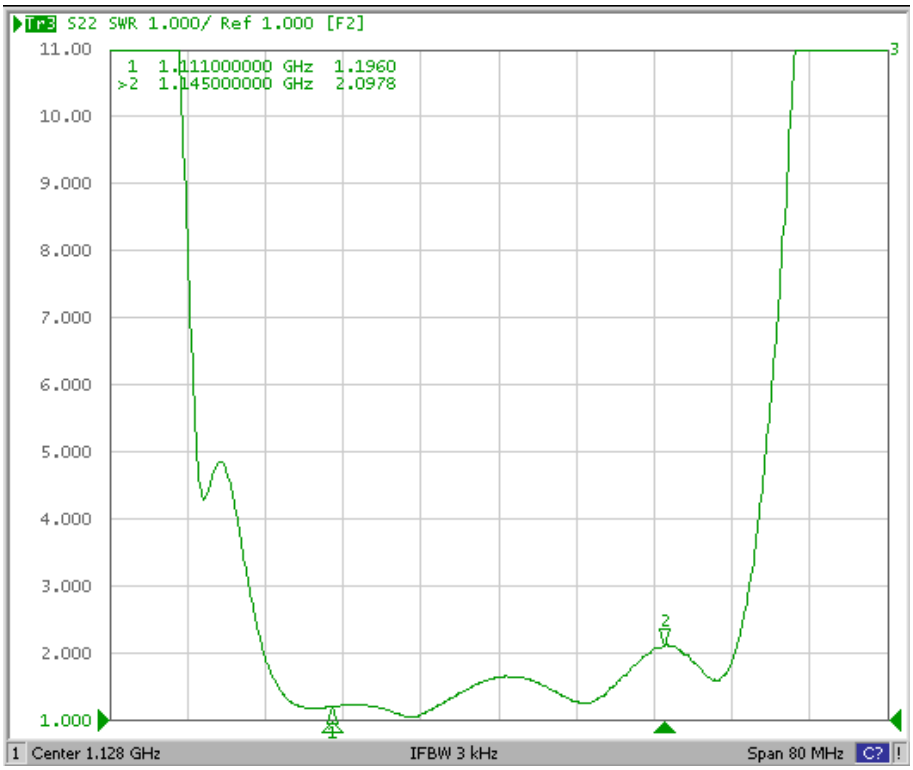
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Reflection Functions

S11



S22

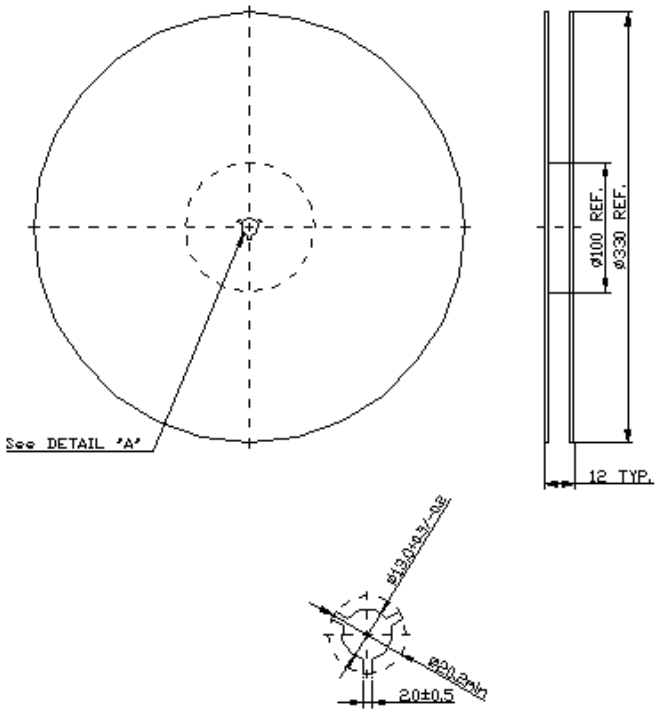


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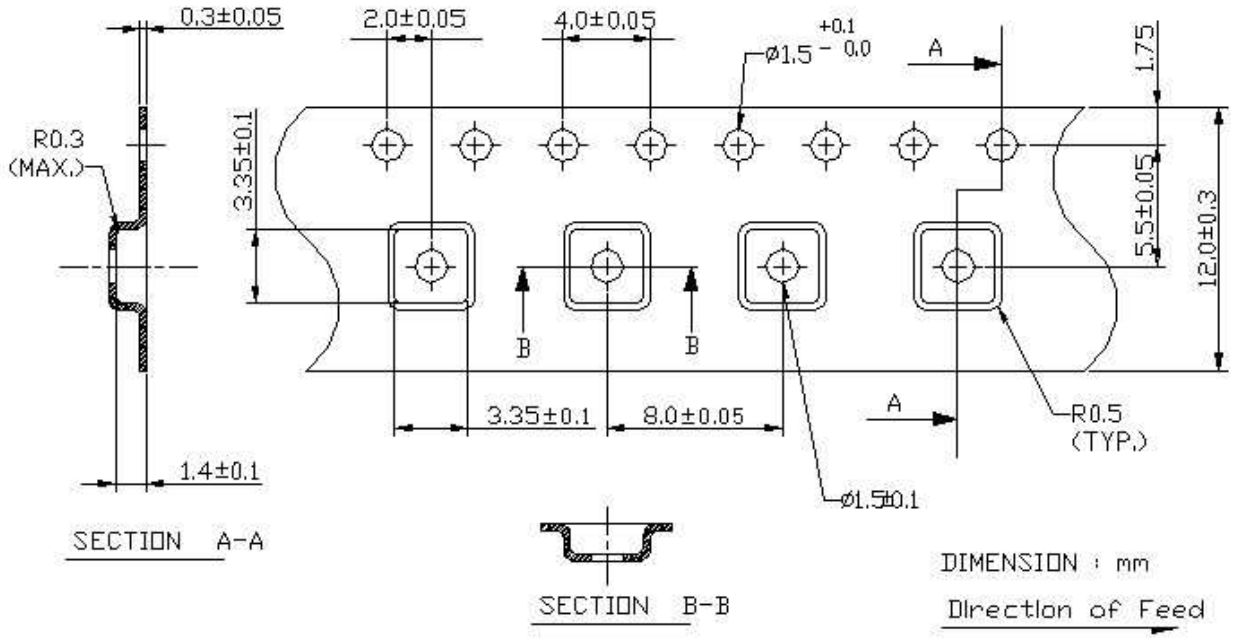
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180℃ for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150℃ s hall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50 ~ 80 seco nds and at 245 ~ 260℃ peak (min 10sec).
4. Time: 2 times.

