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

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

SAW Filter 915.0MHz — Model: TA1423A
Part No: MP06992 — Rev No: 4

A. MAXIMUM RATING:

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

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +125°C
4. Storage Temperature: -40°C to +125°C
5. Moisture Sensitive Level (MSL): Level 3

B. ELECTRICAL CHARACTERISTICS:

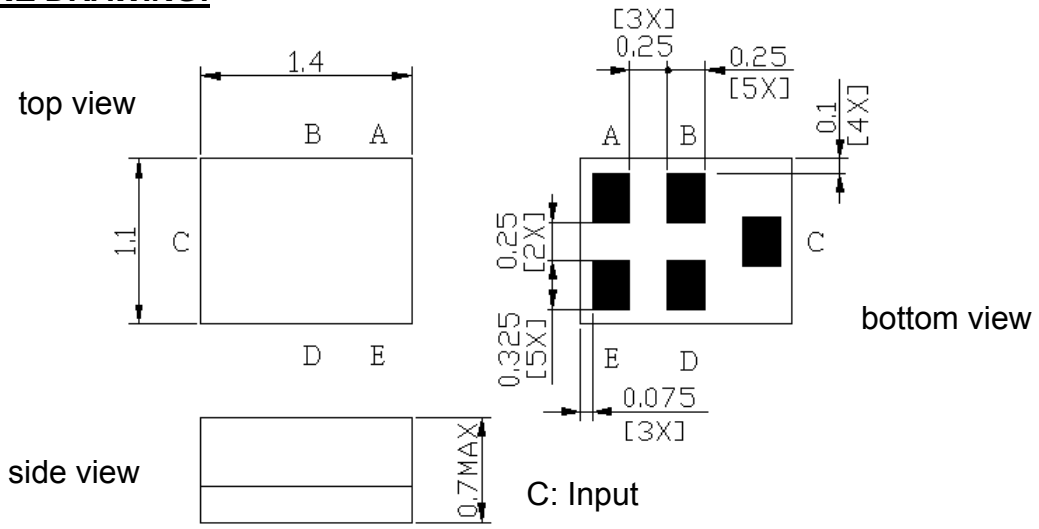
1. Terminating source impedance: Z_S = 50Ω
2. Terminating load impedance: Z_L = 50Ω

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	915	-	-
Insertion Loss (902 ~ 928MHz) IL	dB	-	1.9	2.5	-
Amplitude ripple (902 ~ 928MHz)	dB	-	0.8	1.5	-
VSWR (902 ~ 928MHz)		-	1.6	2	-
Group Delay Deviation (902 ~ 928MHz)	ns	-	11	50	-
Attenuation (reference level from 0dB)					
10 ~ 800MHz	dB	42	46	-	-
800 ~ 845MHz	dB	40	44	-	-
845 ~ 880MHz	dB	35	38	-	-
947 ~ 970MHz	dB	13	28	-	-
970 ~ 1020MHz	dB	33	47	-	-
1020 ~ 1200MHz	dB	35	43	-	-
1200 ~ 3000MHz	dB	28	34	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	-

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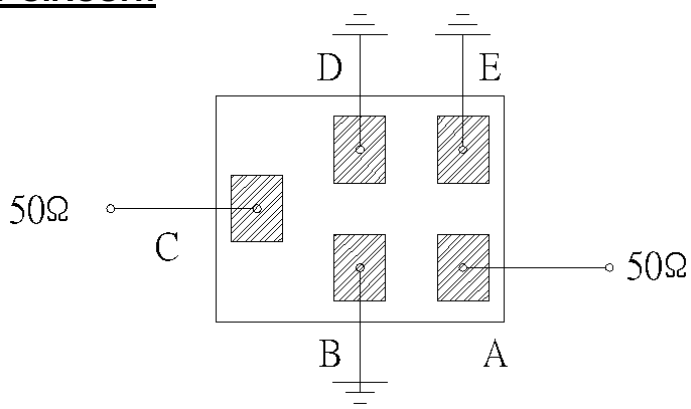
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C. OUTLINE DRAWING:

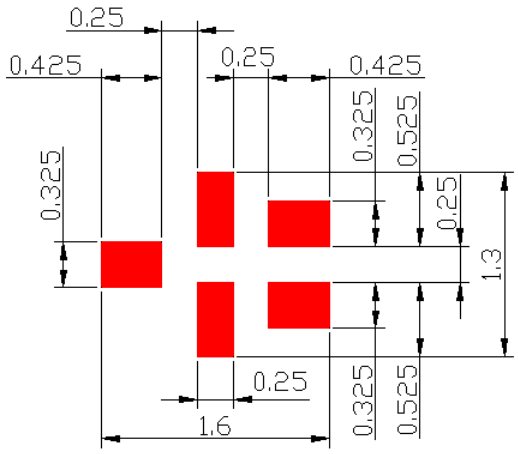


C: Input
A: Output
B, D, E: Ground
Unit: mm

D. MEASUREMENT CIRCUIT:



E. PCB FOOTPRINT:

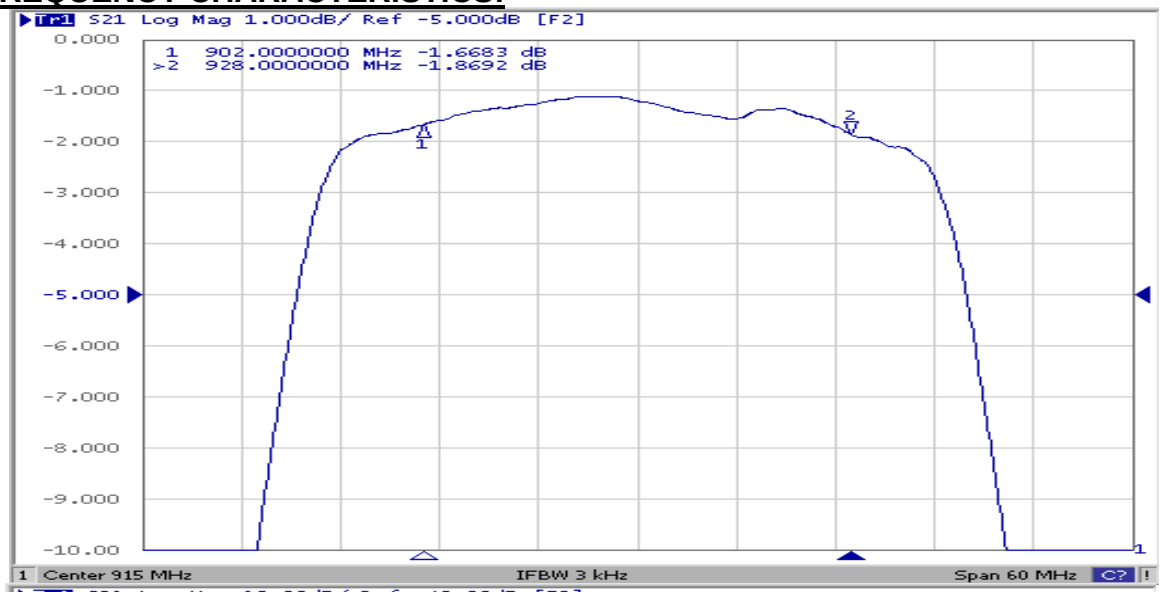


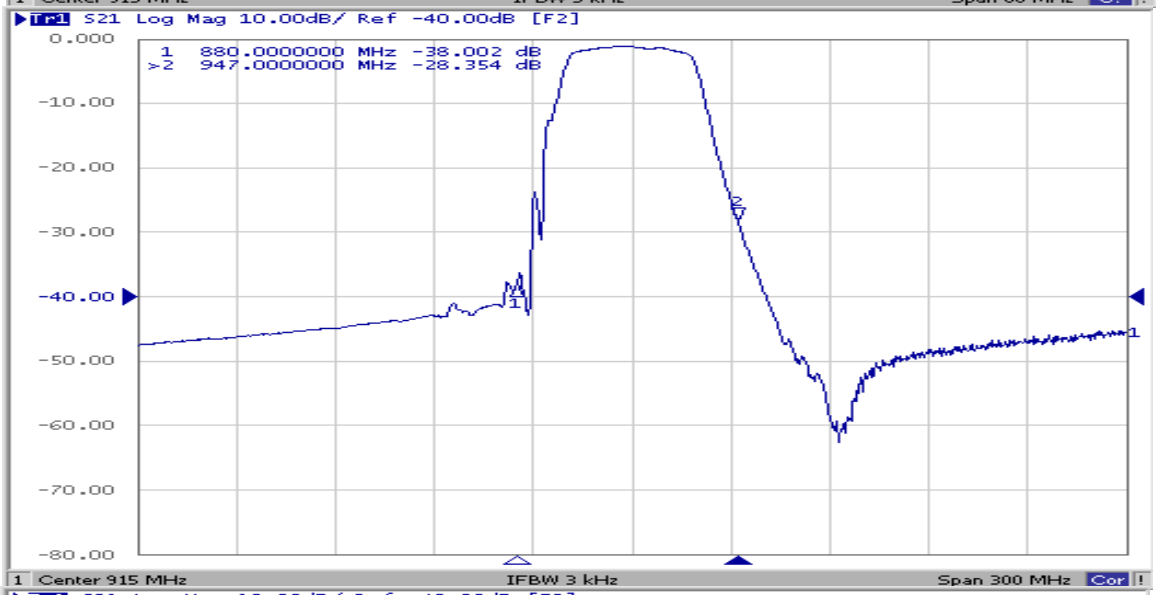
: Land Pattern
Unit : mm

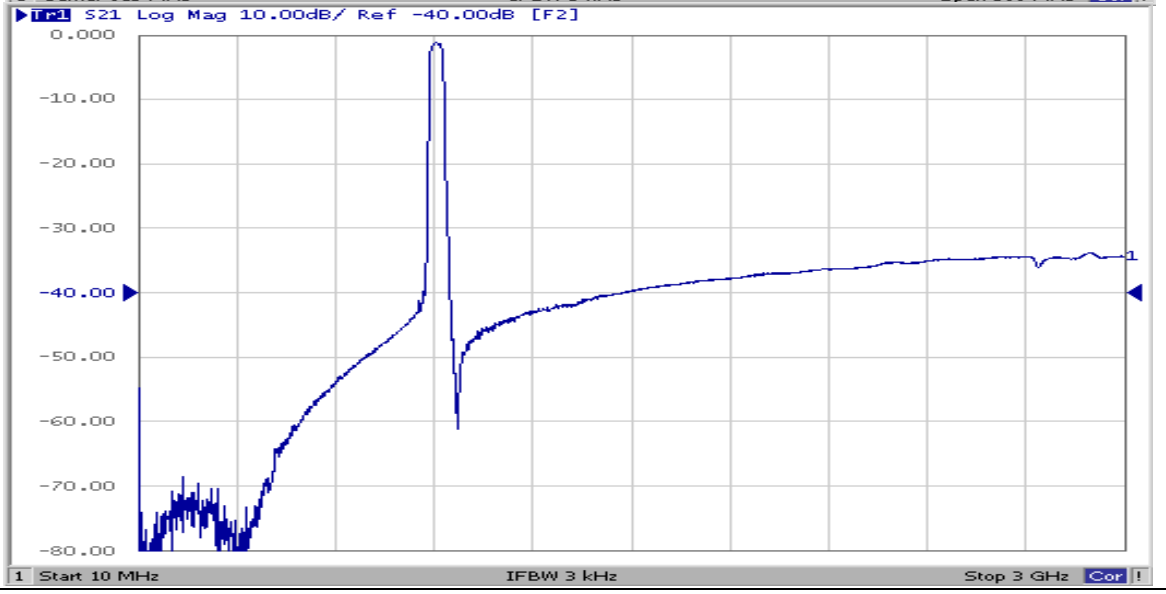
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F. FREQUENCY CHARACTERISTICS:







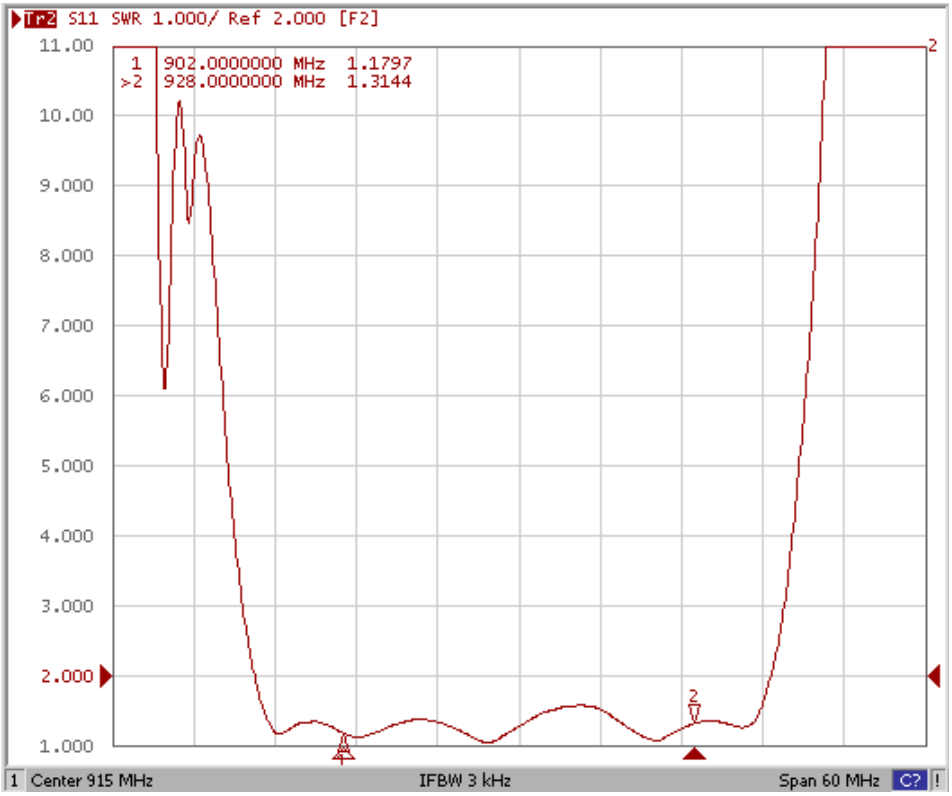
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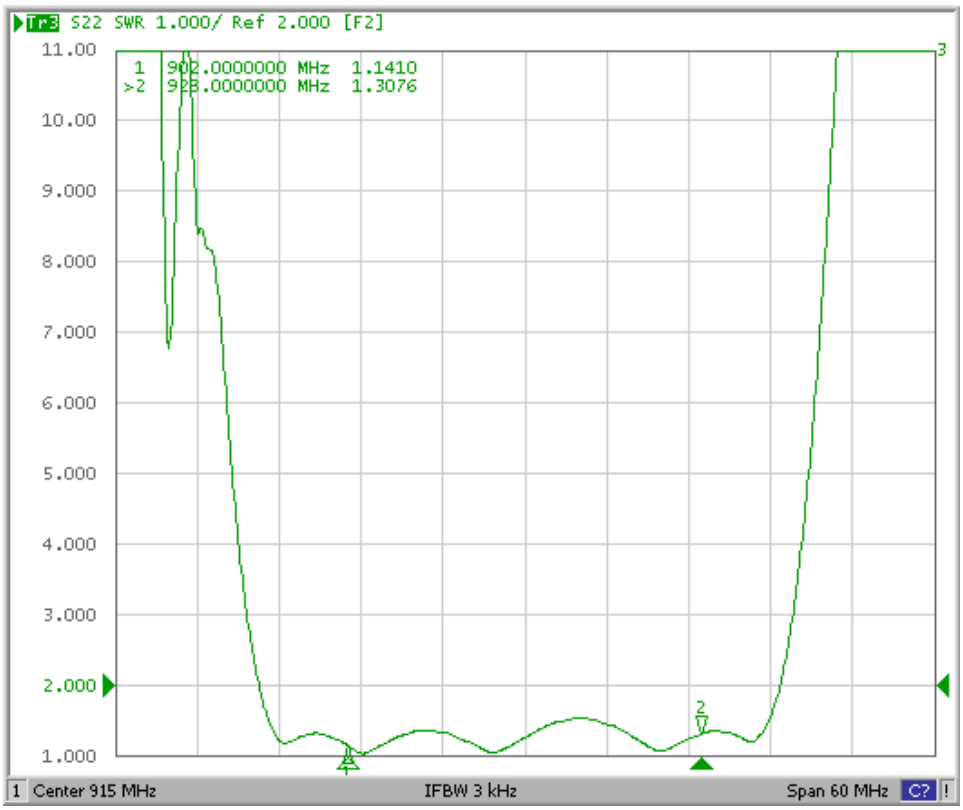
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Part No: MP06992 — Rev No: 4

Reflection Functions

S11



S22

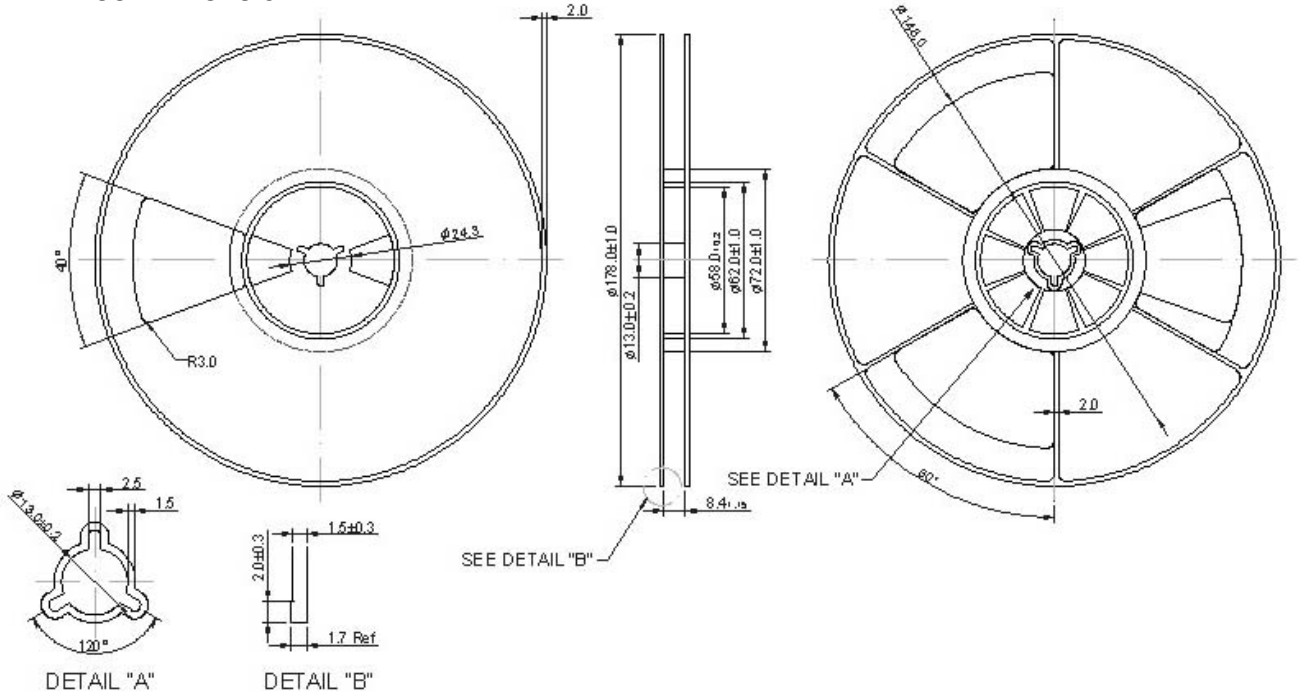


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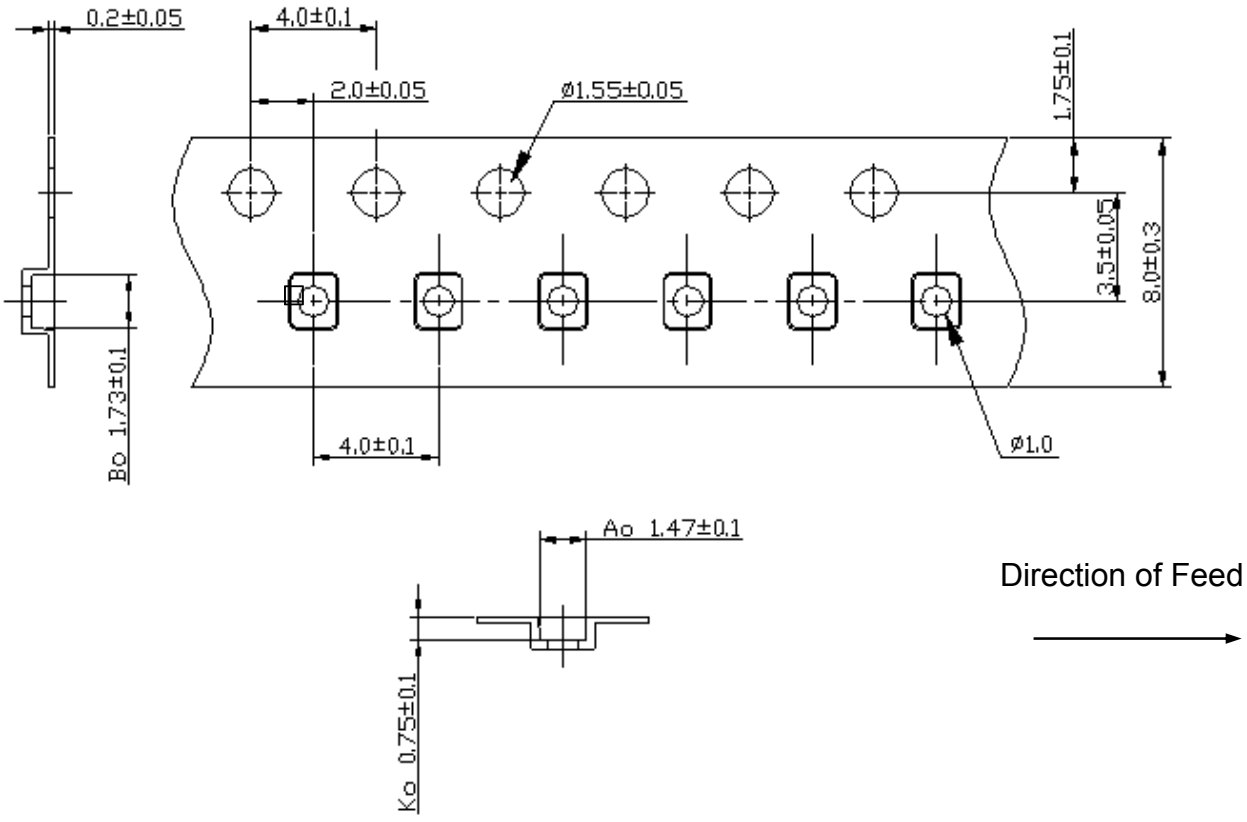
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°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 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.

