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

SAW Filter 869.2250MHz — Model: TA1912A
Part No: MP07119 — Rev No: 1

A. MAXIMUM RATING:

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

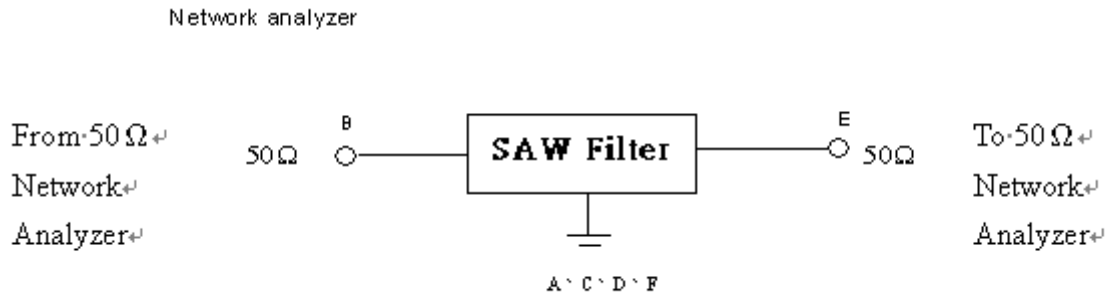
1. Input Power Level: 20dBm
2. DC Voltage: 5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source / load impedance (single): Z_S = 50Ω/Z_L = 50Ω
2. Test Temperature25°C

Item	Unit	Min	Typ.	Max
Center Frequency Fc	MHz	-	869.225	-
Insertion Loss (868.3 ~ 870.15MHz) IL	dB		4.0	5.0
VSWR (868.3 ~ 870.15MHz)			1.3	2.0
Amplitude ripple				
(868.3 ~ 870.15MHz)	dB		1.0	2.0
Attenuation				
50 ~ 791MHz	dB	45	50	
791 ~ 848MHz	dB	35	40	
848 ~ 862MHz	dB	30	40	
880 ~ 883MHz	dB	30	40	
883 ~ 1000MHz	dB	45	50	

C. TEST CIRCUIT:



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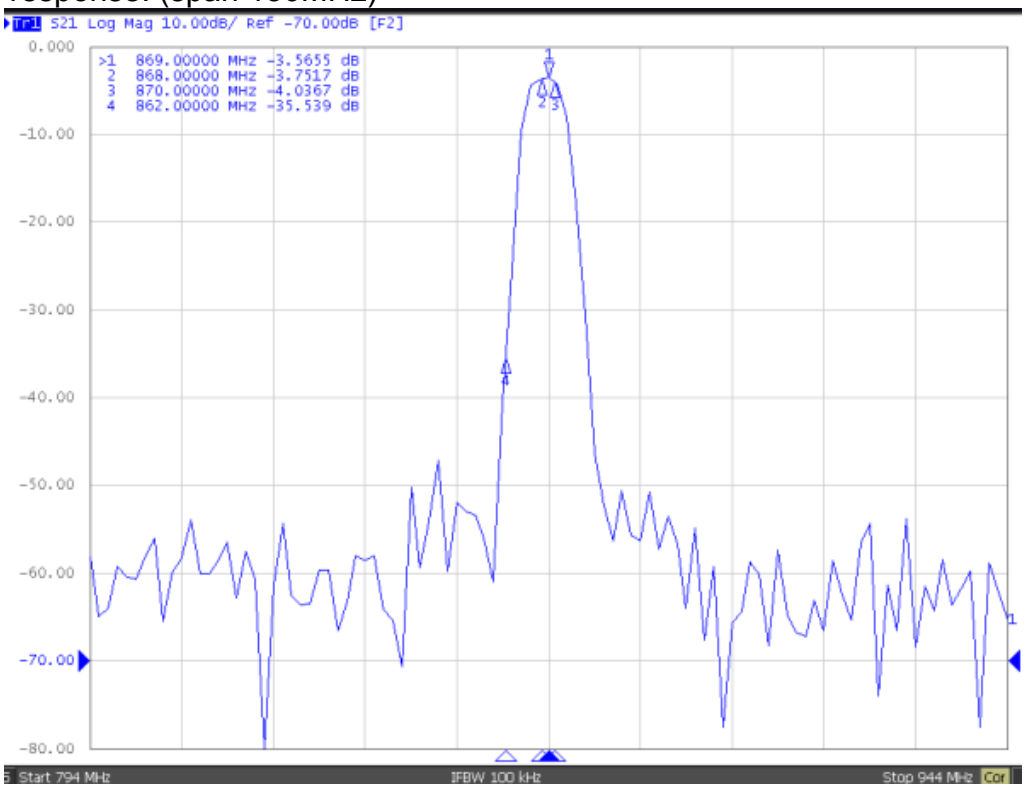
D. FREQUENCY CHARACTERISTICS:

1. S21 response: (span 150MHz)



2. S21 response: (span 10MHz)

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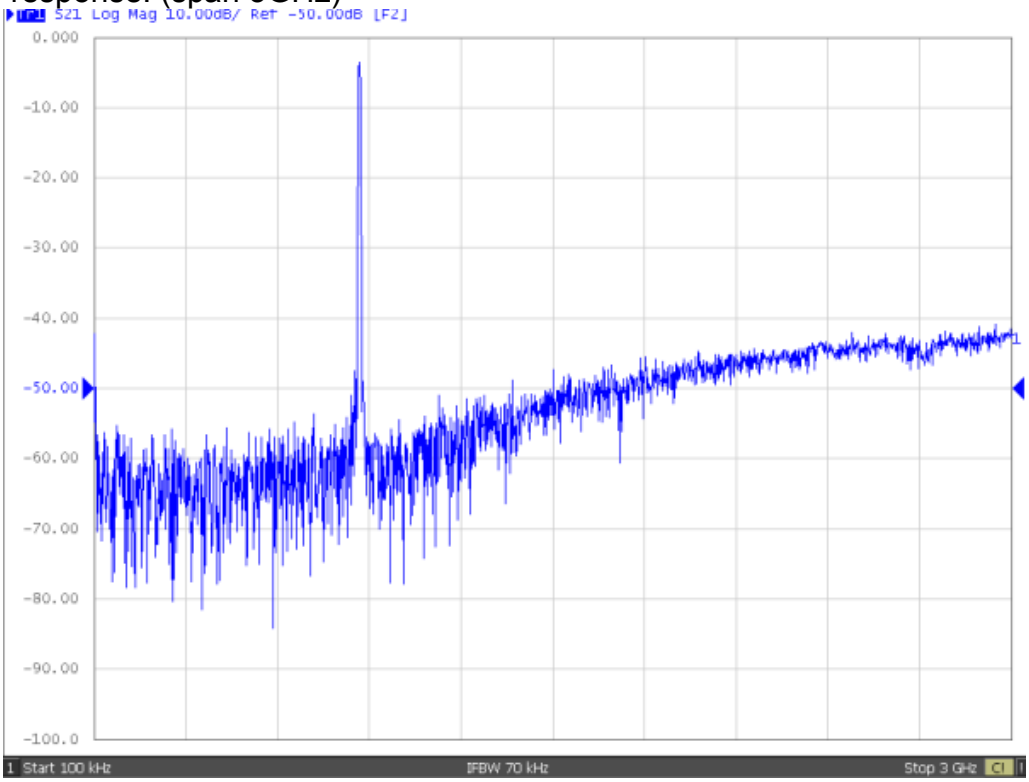
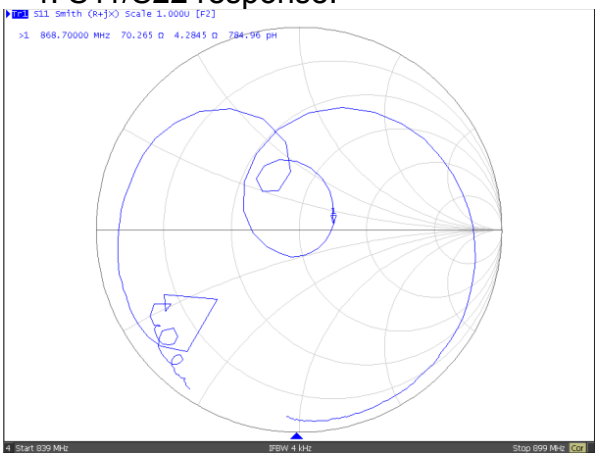
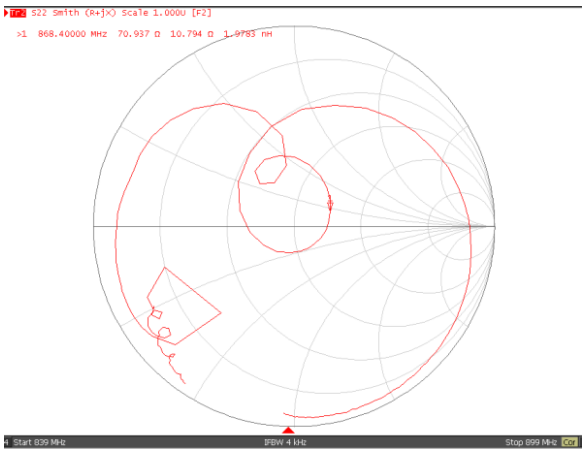
3. S21 response: (span 3GHz)



4. S11/S22 response:





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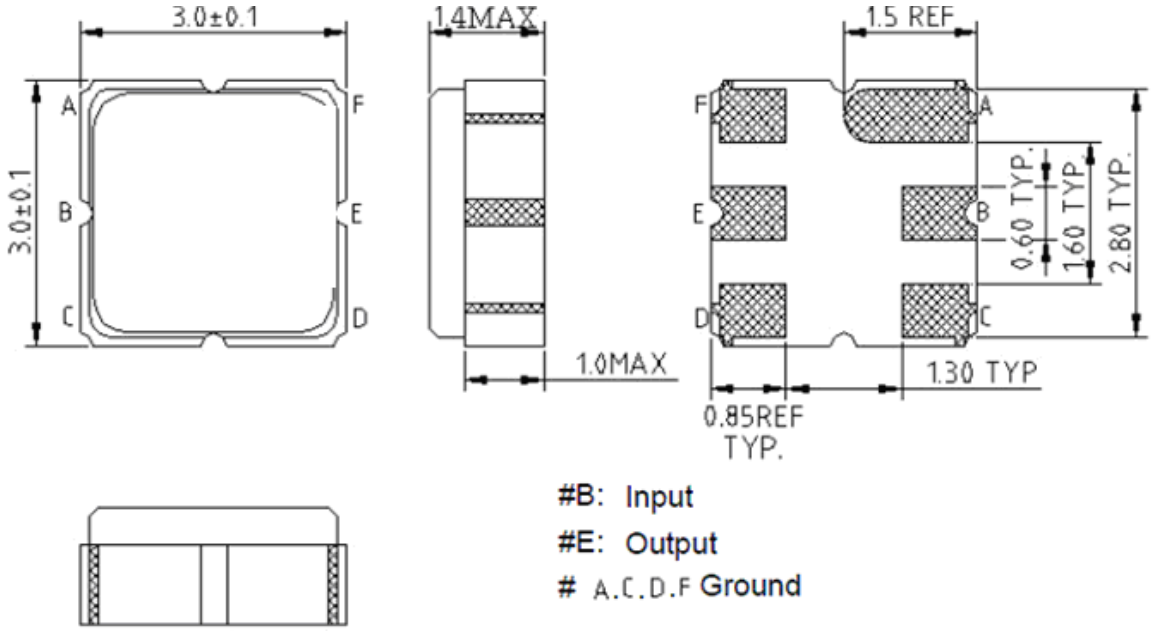
E. OUTLINE DRAWING:



#B: Input
#E: Output
A.C.D.F Ground

Unit: mm

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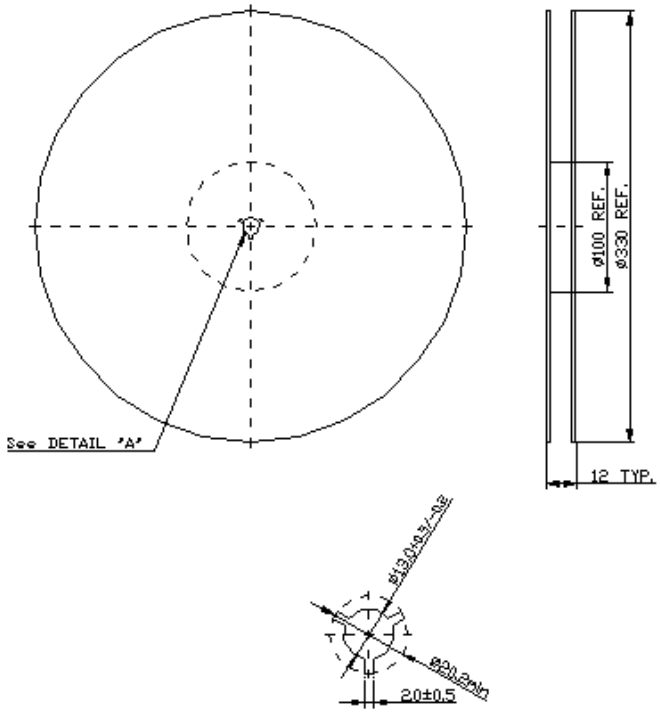
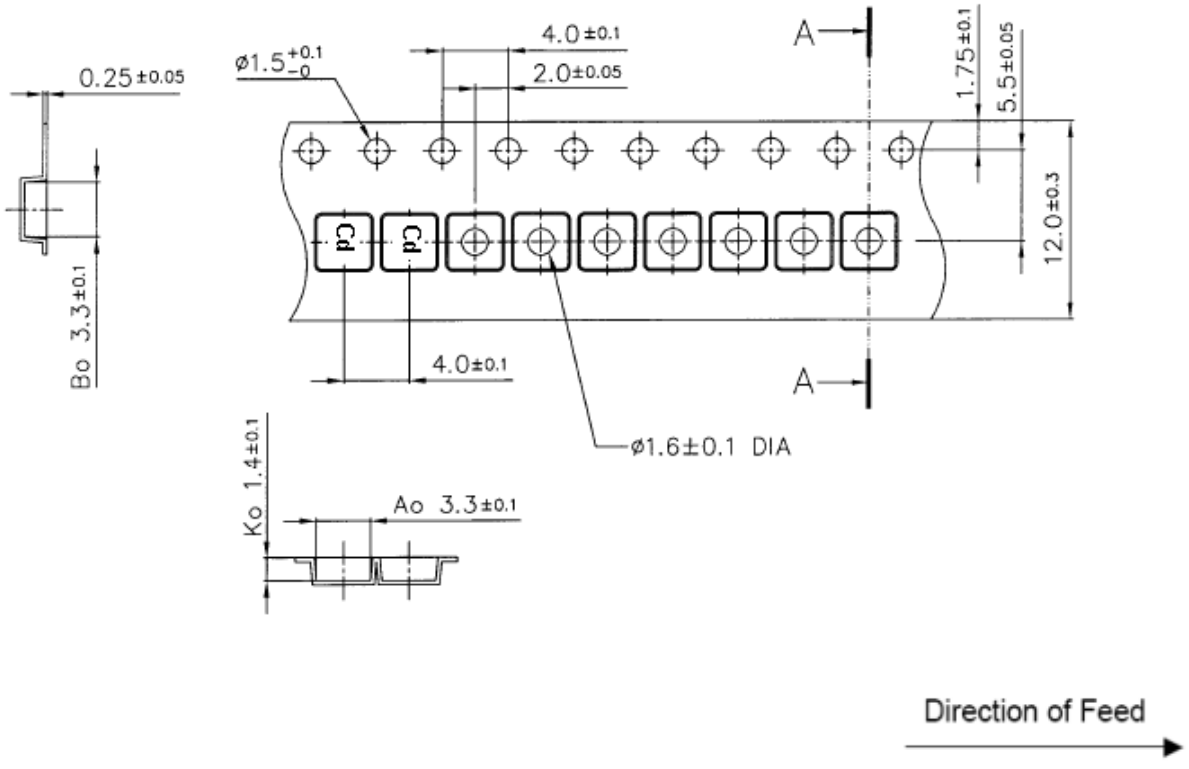
F. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)



2. Tape Dimension



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G. 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 ~ 40sec).
4. Time: 2 times.