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

SAW Filter 433.920MHz — Model: TA1884B
Part No: MP08640 — Rev No: 1

A. MAXIMUM RATING:

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

1. Input Power Level: 20dBm (50000 hours CW)
2. Input Power Level: 28dBm (5000 hours CW)
3. DC Voltage: 6V
4. Operating Temperature: -40°C to +95°C
5. Storage Temperature: -40°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min	Typ.	Max
Center Frequency Fc	MHz	-	433.92	-
3dB BW	MHz	-	0.63	-
Maximum Insertion Loss IL				
(Incl. Matching Element)	dB	-	2.7	3.4
(Exclude Loss of Matching Element)	dB	-	2.5	3.2
Passband (Relative to IL min)				
433.76 ~ 434.08MHz	dB	-	0.5	2.0
433.74 ~ 434.10MHz	dB	-	0.7	3.0
433.70 ~ 434.14MHz	dB	-	1.2	6.0
Attenuation (Relative to IL min)				
10.000 ~ 423.50	dB	38	43	-
423.50 ~ 431.72	dB	29	34	-
431.72 ~ 432.12	dB	26	36	-
432.12 ~ 433.10	dB	10	24	-
434.70 ~ 434.92	dB	10	17	-
434.92 ~ 442.00	dB	13	21	-
442.00 ~ 500.00	dB	40	44	-
500.00 ~ 700.00	dB	50	54	-
700.00 ~ 805.00	dB	45	55	-
805.00 ~ 1000.0	dB	60	70	-

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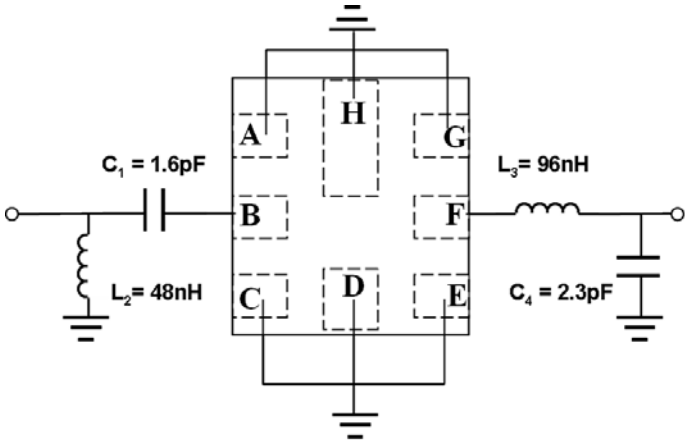
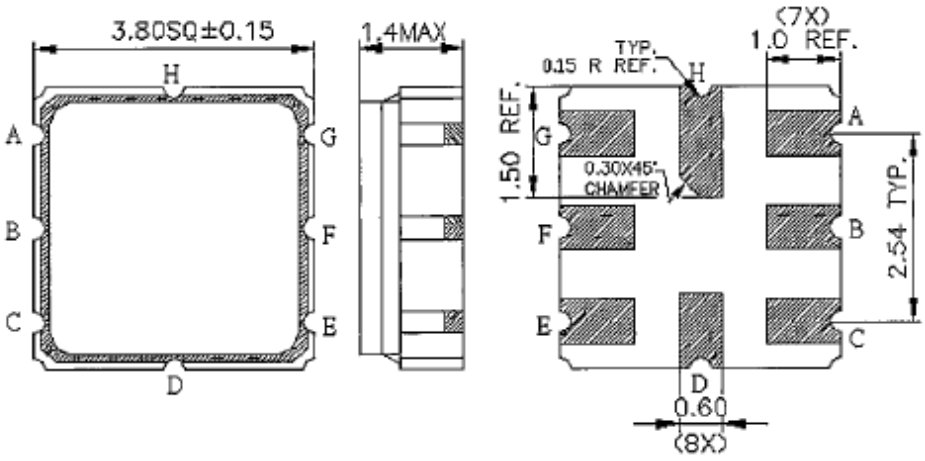
C. TEST CIRCUIT: (By Network Analyzer simulation)



D. OUTLINE DRAWING:



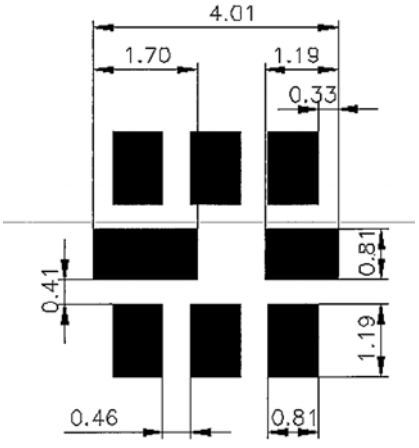
B: Input

F: Output

A, C, D, E, G, H: Ground

Unit: mm

E. PCB FOOTPRINT:



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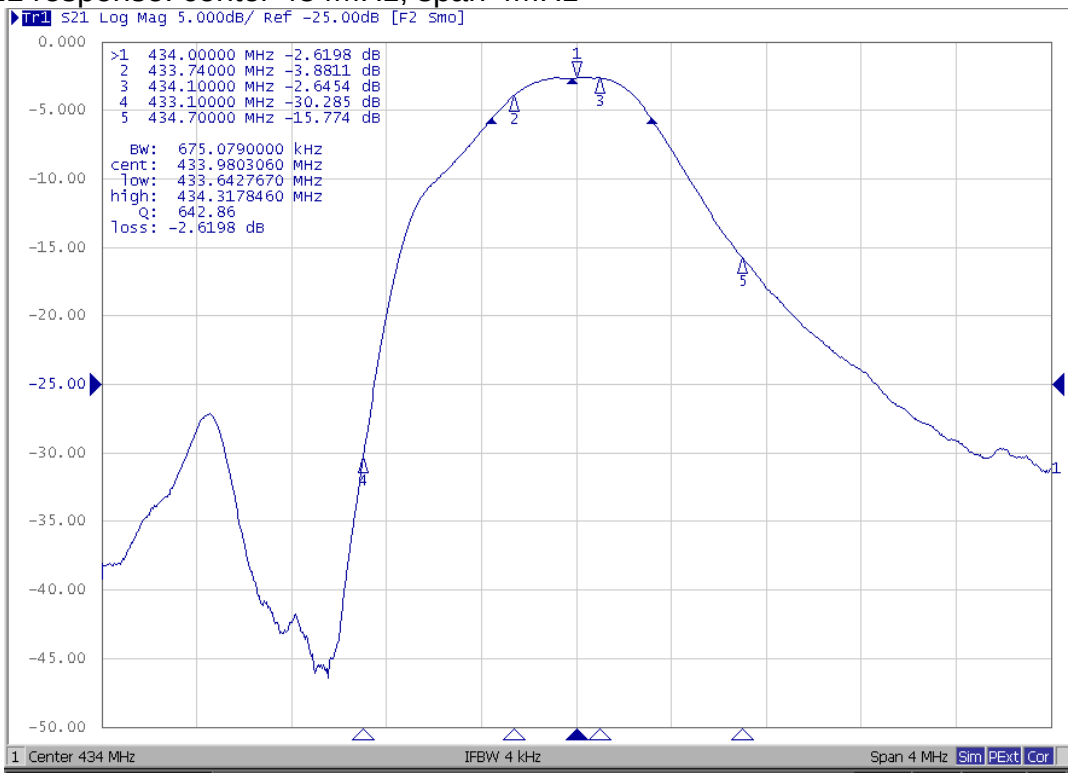
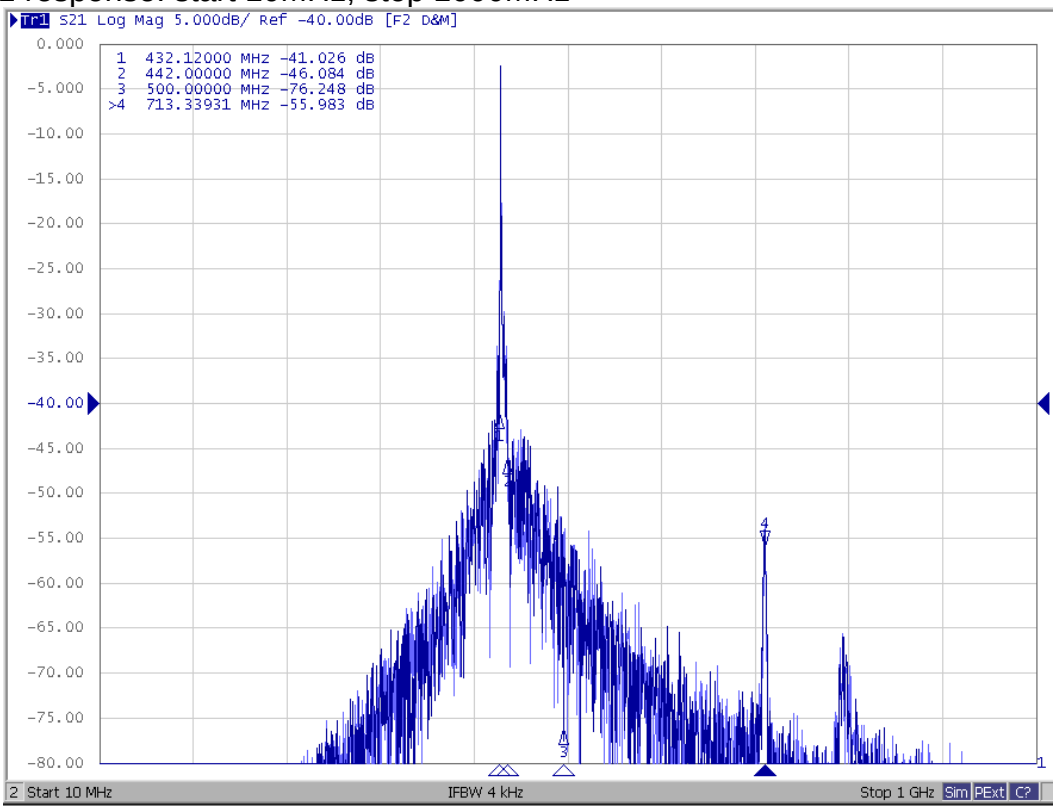
F. FREQUENCY CHARACTERISTICS:

1. S21 response: center 434MHz, span 4MHz



2. S21 response: start 10MHz, stop 1000MHz



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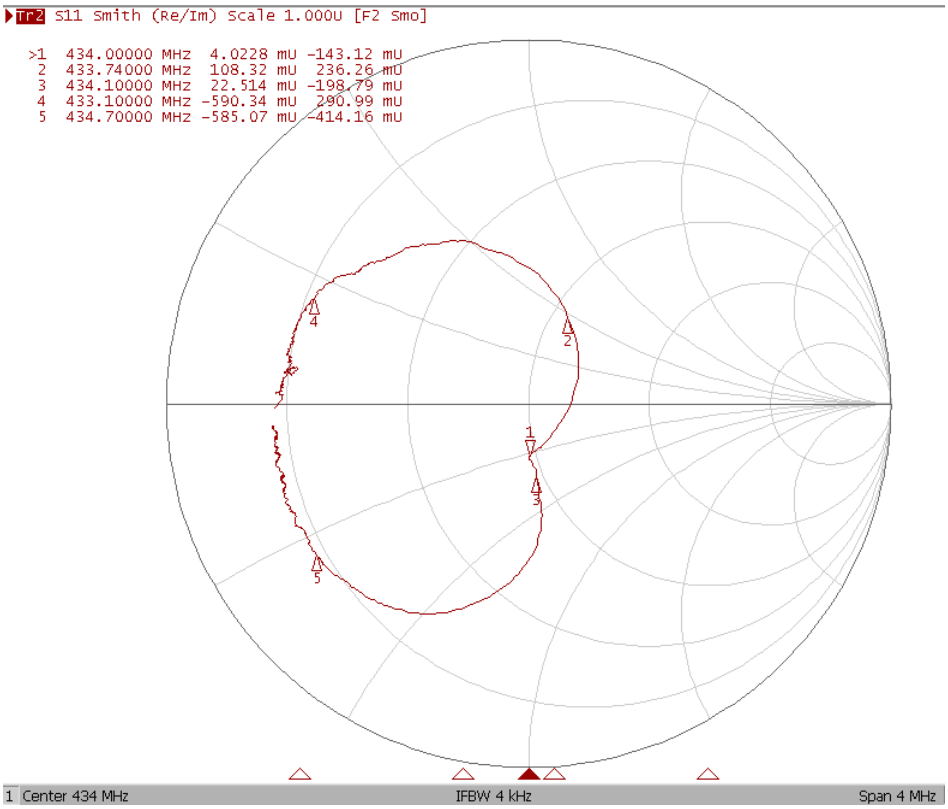
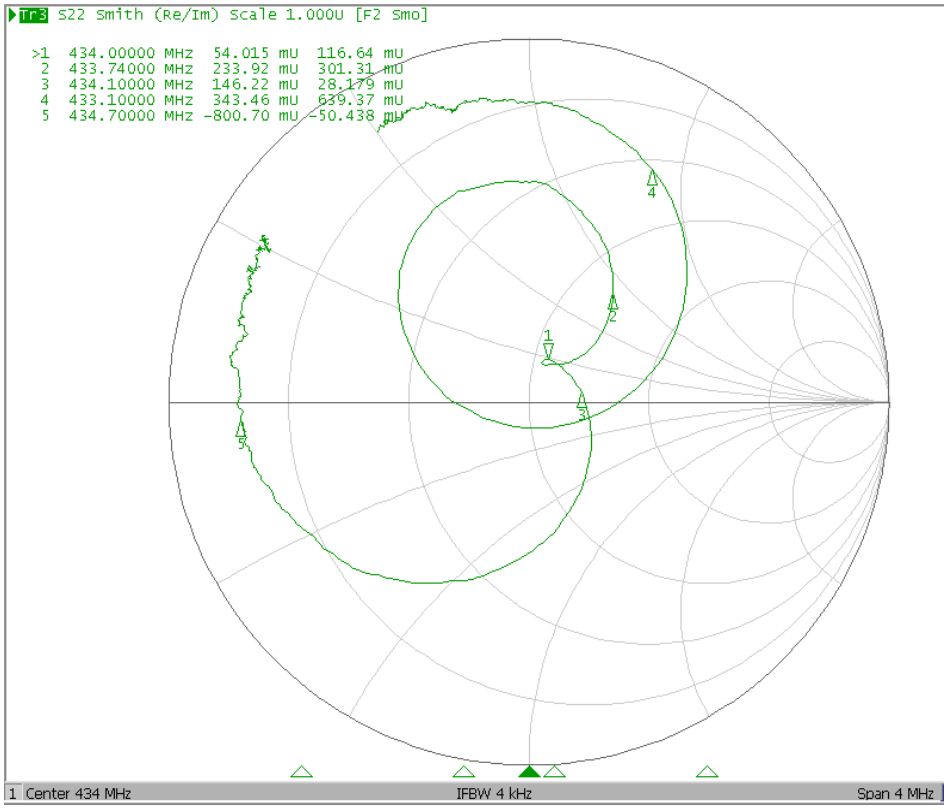
3. S11 & S22 Smith Chart: center 434MHz, span 4MHz





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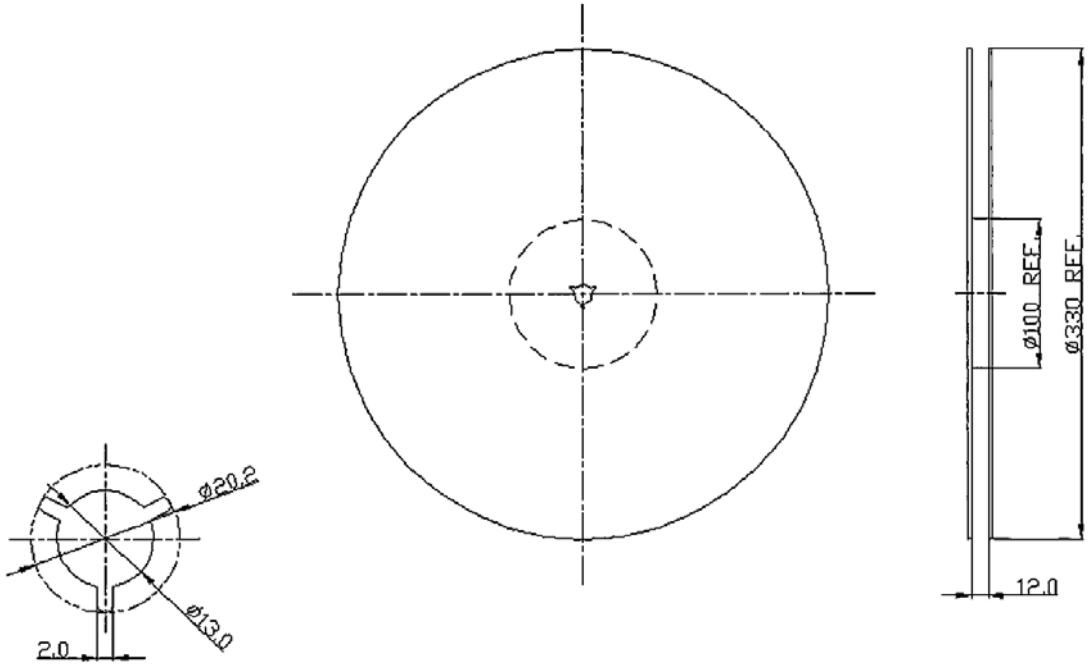
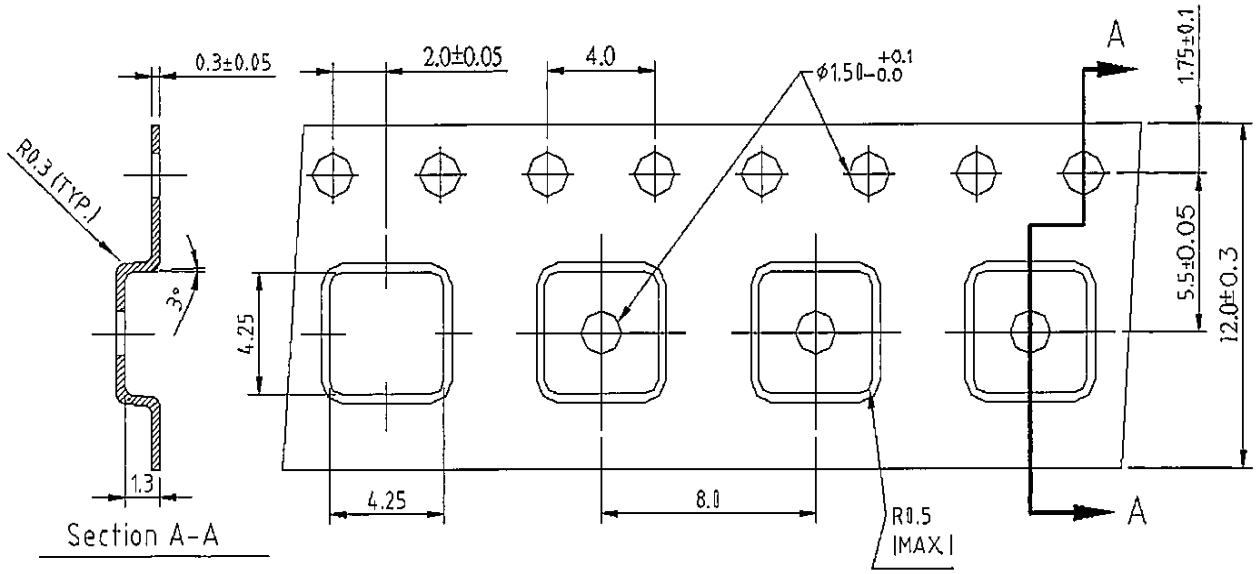
G. PACKING:

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℃ 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.