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

SAW Filter 420MHz — Model: TB0801A

Part No: **MP02620** REV. NO.: 2.1

A. MAXIMUM RATING:

0. Maximum Input Power: 10dBm
1. Operating Temperature: -40 °C ~ +85 °C
2. Storage Temperature: -40 °C ~ +85 °C

B. CHARACTERISTICS:

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_C MHz	-	420.0	-	-
Minimum Insertion loss I.L. dB	-	10.5	13.0	-
1 dB Bandwidth MHz	19.6	22.1	-	-
Return Loss dB	8.0	11.0	-	-
Ripple (Fc±9.8 MHz) dB	-	0.6	1	-
Group-delay Ripple (Fc±9.8 MHz) nsec	-	20	75	-
Attenuation (Reference level from Minimum insertion loss)				
(1) 10 ~ 400MHz dB	40	49	-	-
(2) 440 ~ 2300MHz dB	40	50	-	-
(3) at 324MHz	45	68		
(4) at 372MHz	45	62		
Temperature Coefficient		-23		
Single (Differential) Input Impedance Ohm	-	50(100)	-	
Single (Differential) Output Impedance Ohm	-	50(100)	-	

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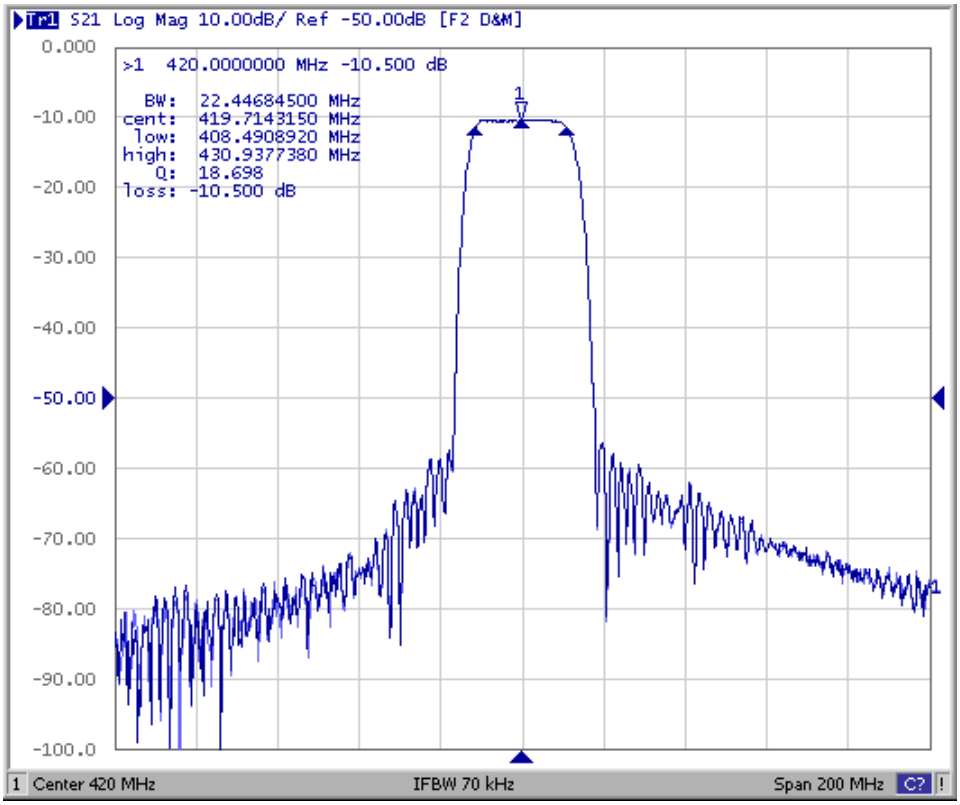
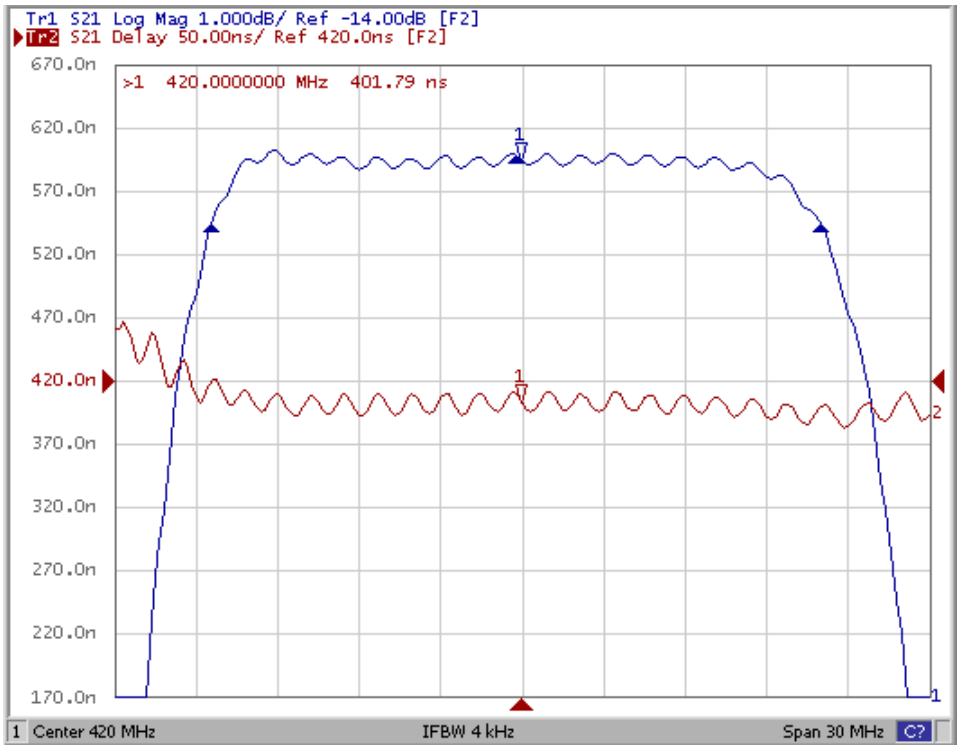
C. FREQUENCY CHARACTERISTICS:

S11 Response:





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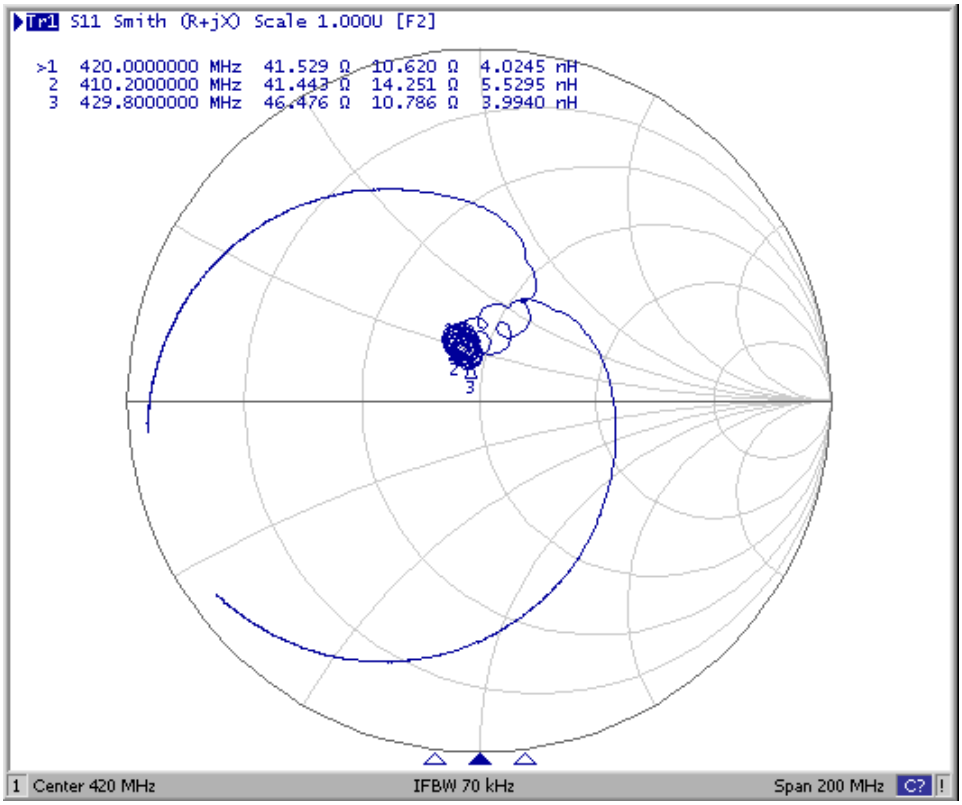
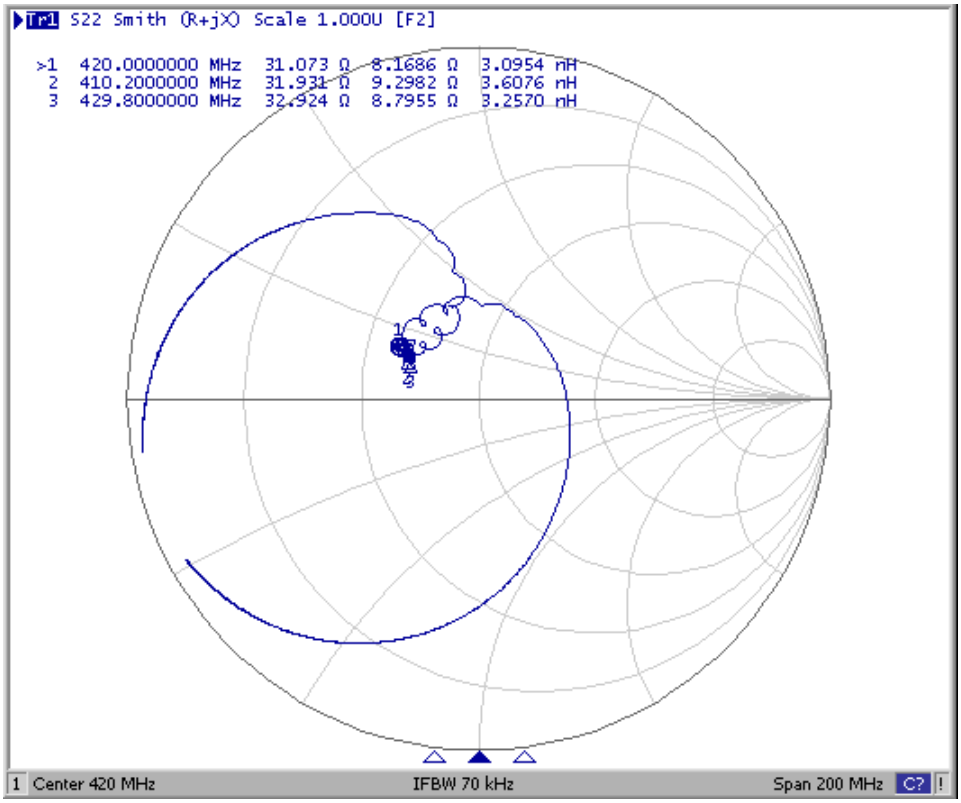
S11 Smith-Chart



S22 Smith-Chart



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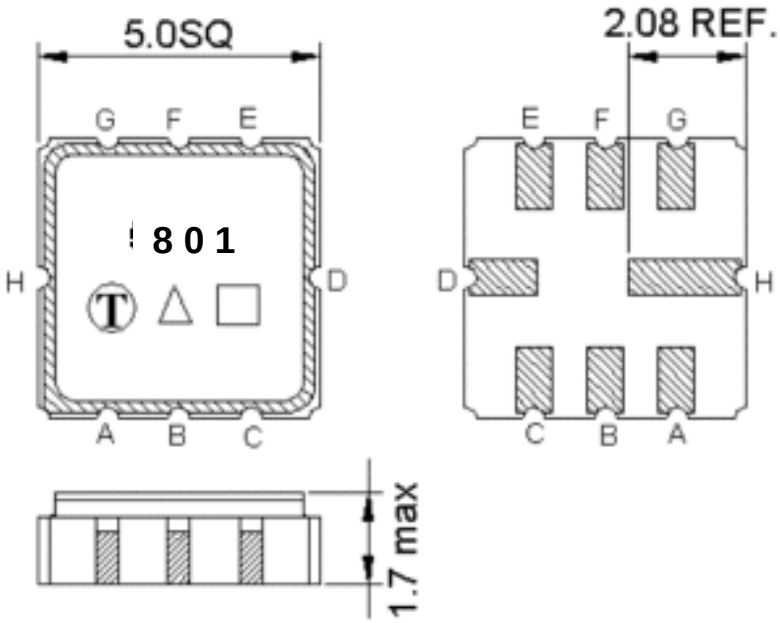
D. OUTLINE DRAWING:



Pin A: **RF input** or balanced input+
Pin B: Ground or RF balanced input-
Pin E: **RF output** or balanced output+
Pin F: Ground or RF balanced output-
Pin D,H: Case Ground
Pin C, G : Ground

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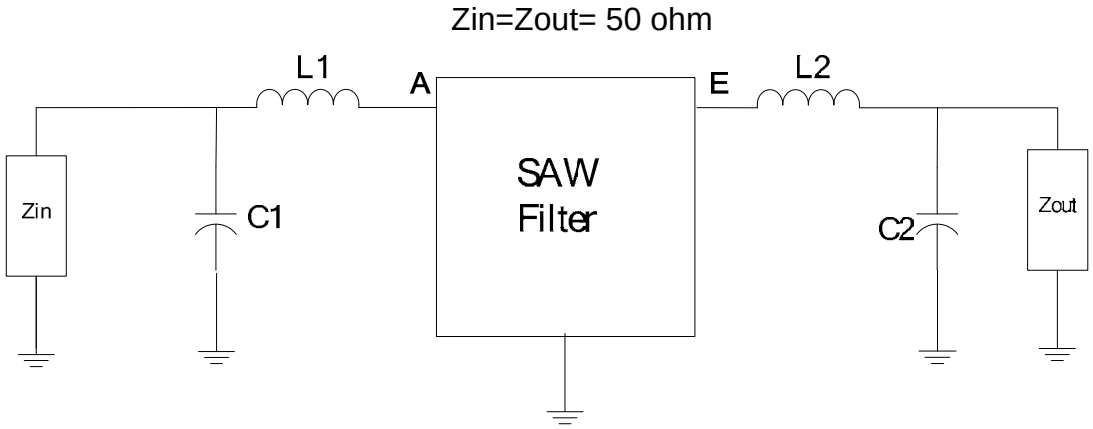
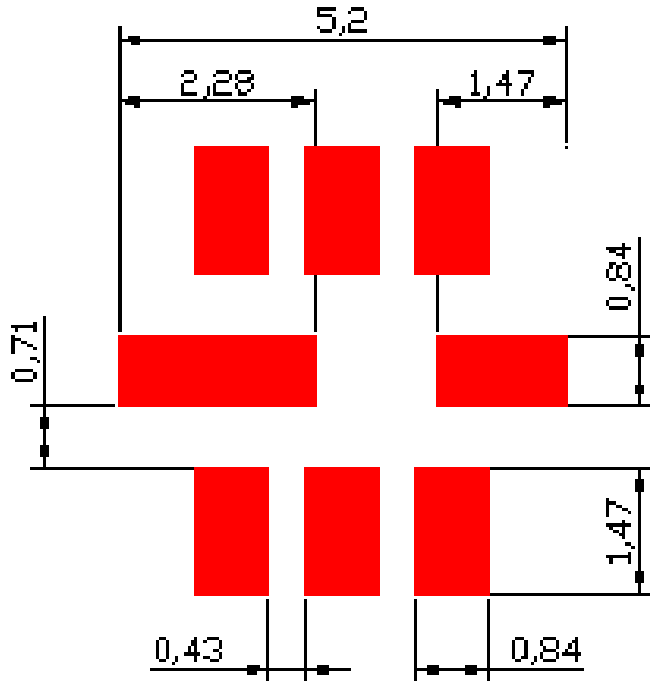
E. MEASUREMENT CIRCUIT:



L1=15nH, C1=15pF, L2=18nH, C2=18pF

F. PCB FOOTPRINT



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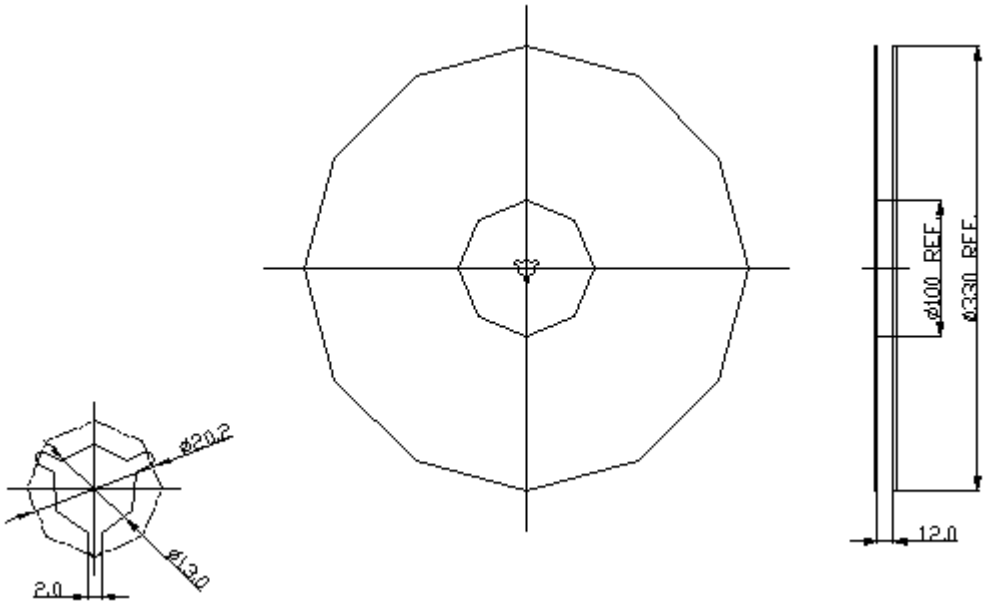
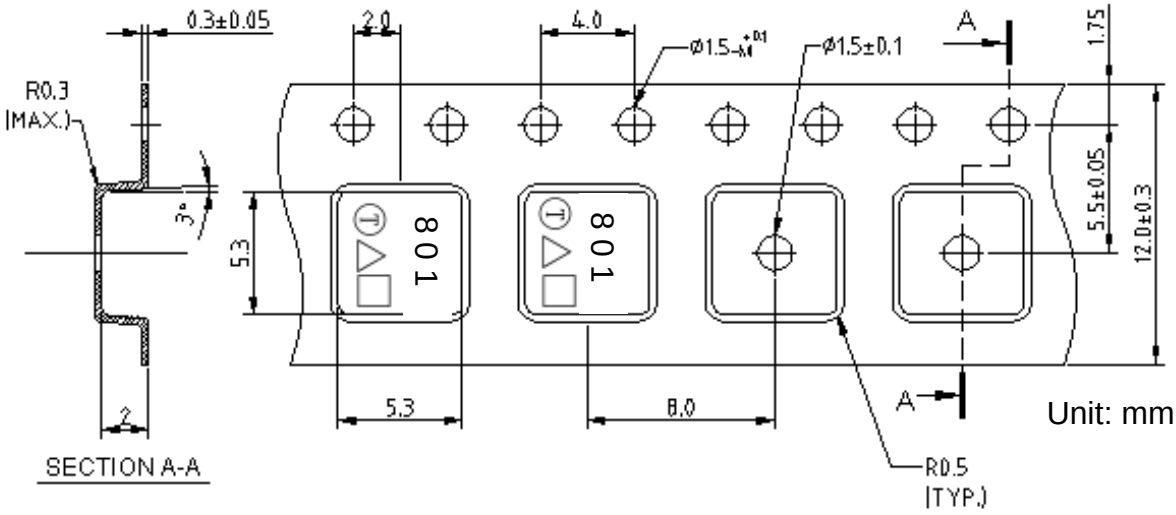
G. PACKAGE:

(1). REEL DIMENSION

(Reel Count: 7”=1000 typ.; 13”=3000 typ.)



(2). TAPE DIMENSION



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H. RECOMMENDED REFLOW PROFILE: