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

SAW Filter 1586.36MHz — Model: TA0699A
Part No: MP03098 — Rev No: 2

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (differential): Z_S = 150Ω // 33nH
2. Terminating load impedance (differential): Z_L = 150Ω // 33nH

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1586.36	-	-
Bandwidth at -2dB	MHz	40	59	-	-
Insertion Loss in 1566.36 ~ 1606.36MHz	dB	-	2.7	5	-
Amplitude ripple (1566.36MHz ~ 1606.36MHz)	dB	-	1	2	-
Phase error (1566.36 MHz ~ 1606.36MHz) (3)	deg	-	3.5	6	-
I/O VSWR (1566.36MHz ~ 1606.36MHz)		-	2.1	2.5	-
Attenuation (1)					
50 ~ 1504.3MHz	dB	46	50	-	-
1668.42 ~ 1810.5MHz	dB	46	53	-	-
1810.5 ~ 4250MHz	dB	35	41	-	-
4250 ~ 6000MHz	dB	30	38	-	-

Notes:

1. The amplitude reference is insertion loss at Fc.
2. The amplitude ripple is defined as the max level - min. level over any 30MHz block of the given bandwidth.
3. The phase error is measured over any 30 MHz block of the given bandwidth.

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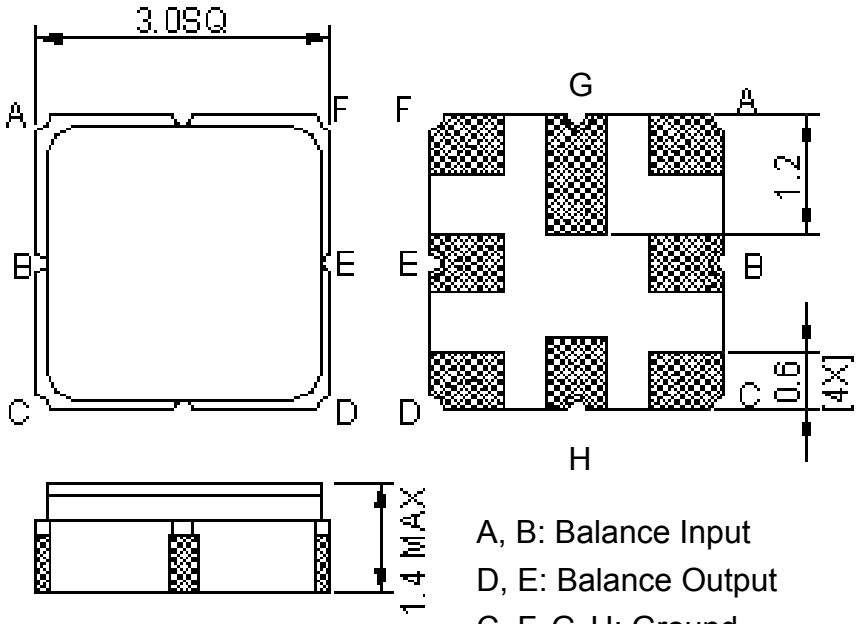
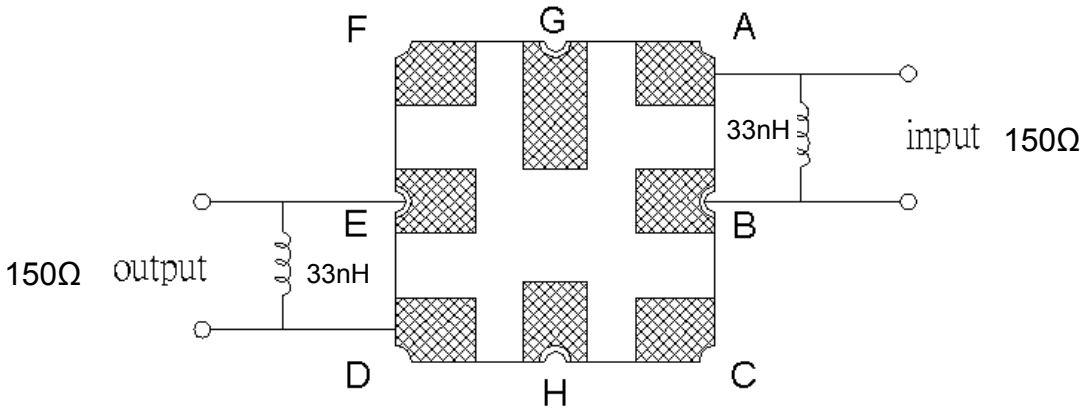
C. OUTLINE DRAWING:

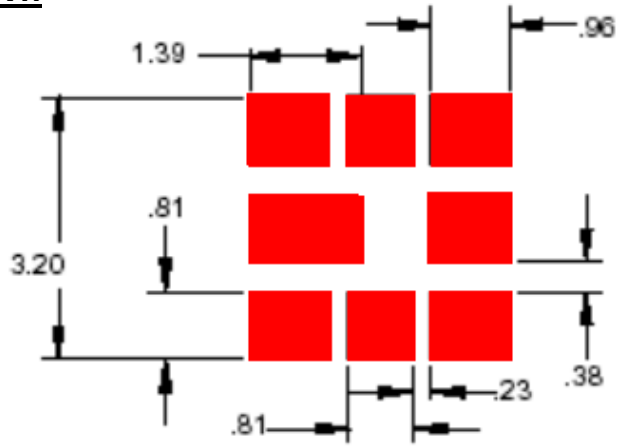


A, B: Balance Input
D, E: Balance Output
C, F, G, H: Ground
Unit: mm

D. MEASUREMENT CIRCUIT:



E. PCB FOOTPRINT:



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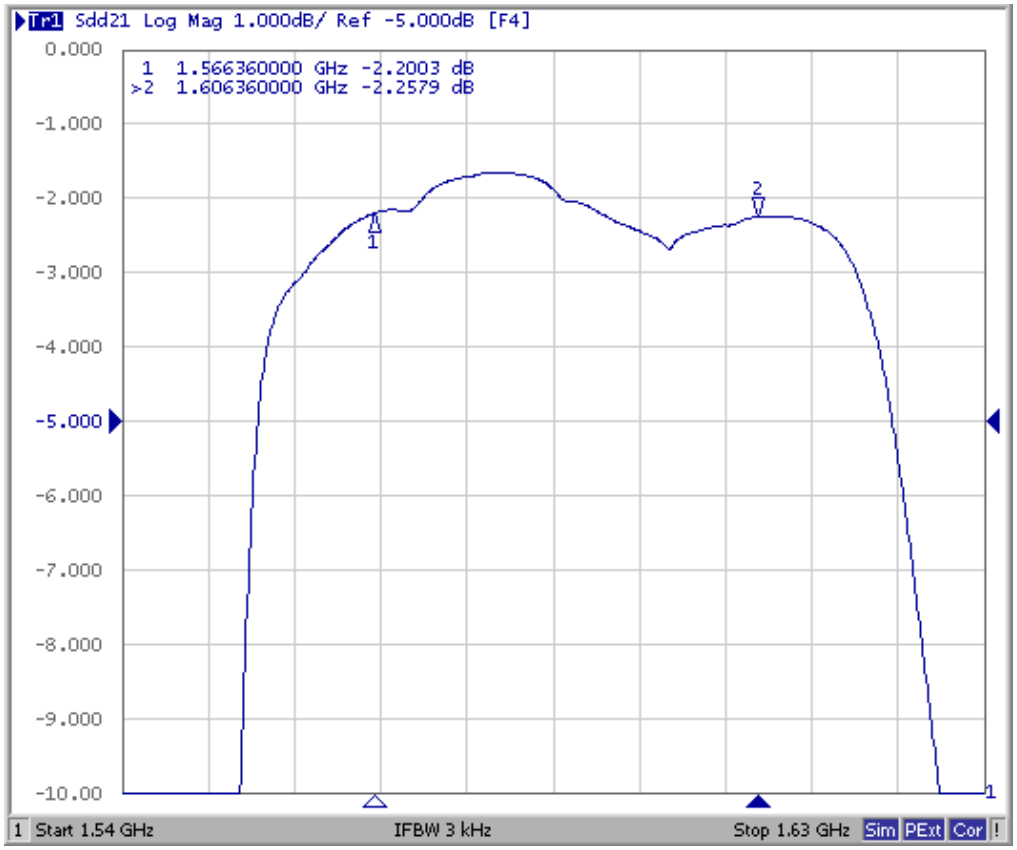
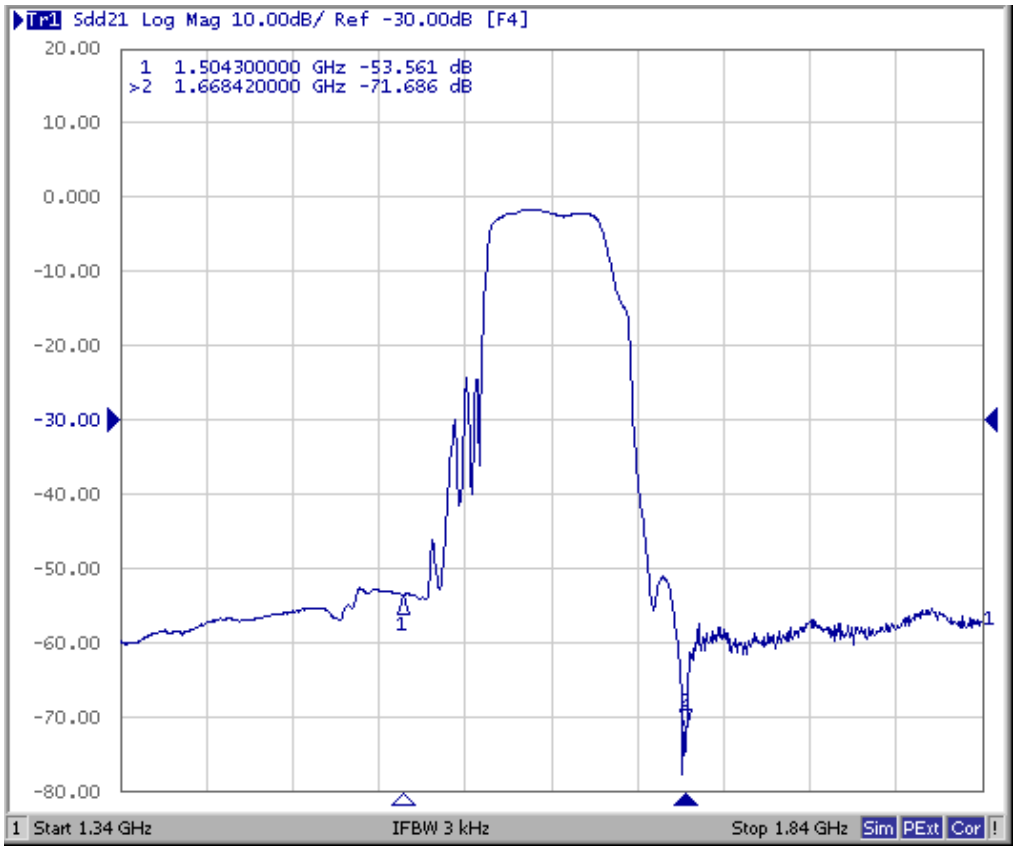
F. FREQUENCY CHARACTERISTICS:





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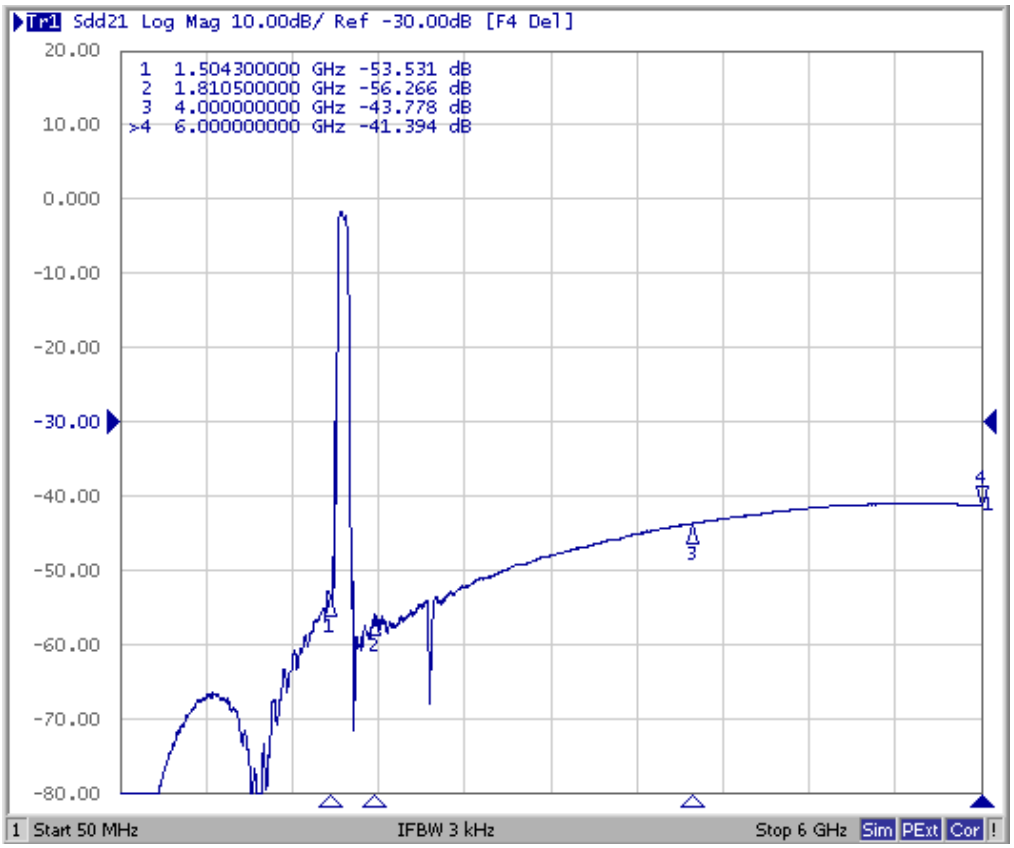
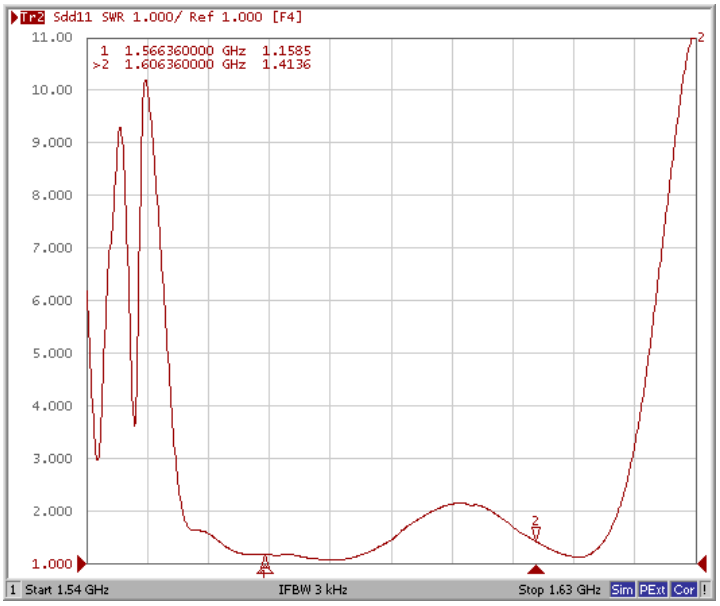
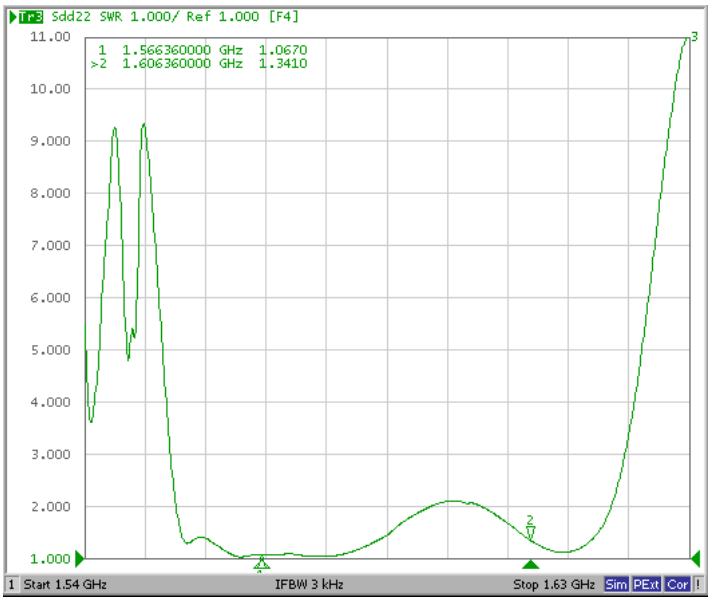


Reflection Functions

S11



S22



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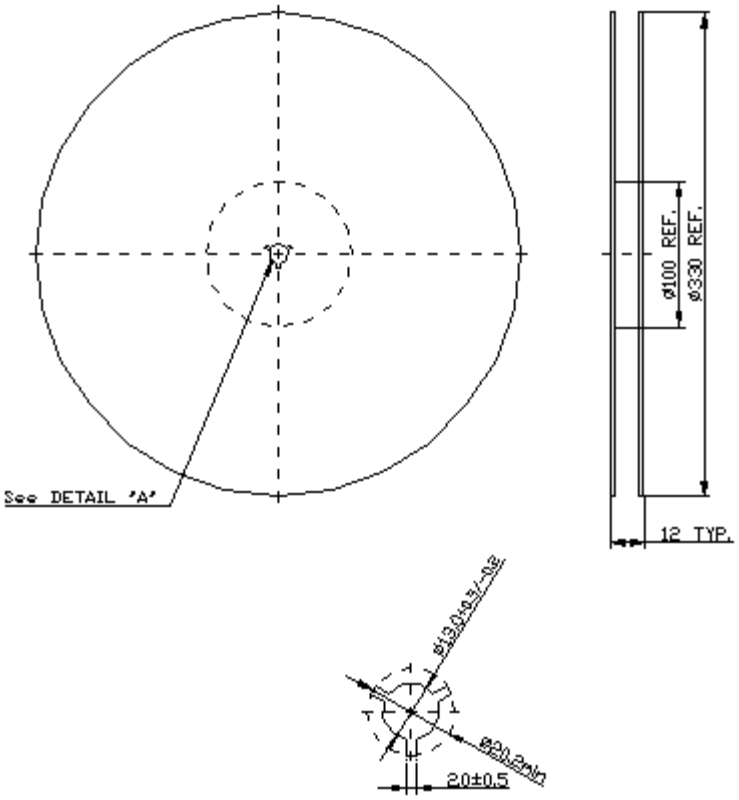
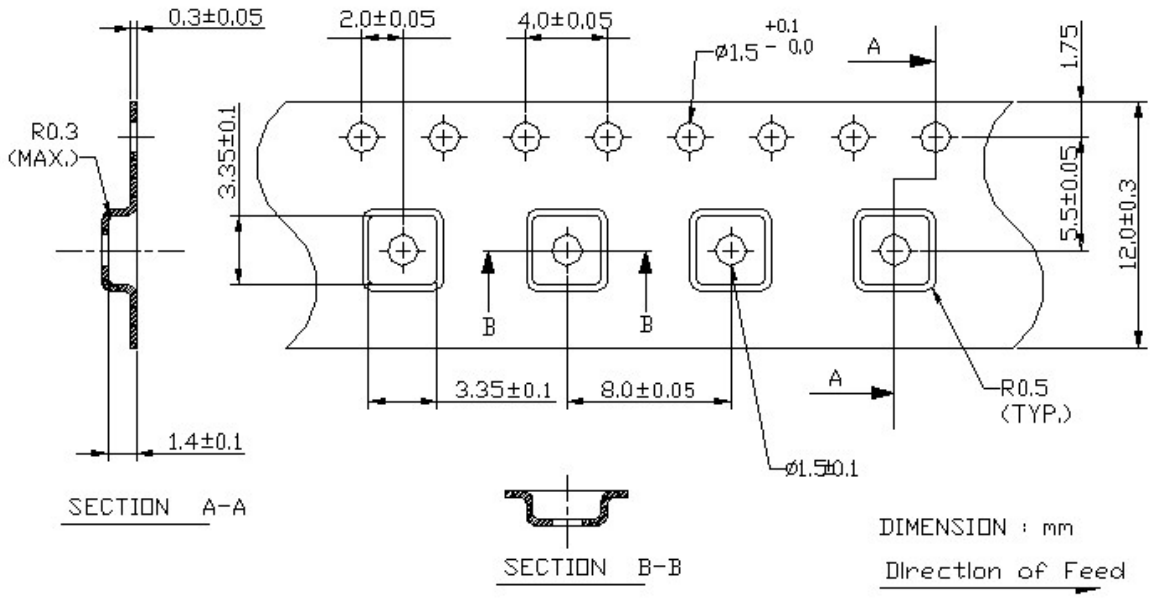
G. PACKING:

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



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE: