

SAW Filter 1420.0MHz

Model: TA0890A

Part No: MP02013

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): $Z_S = 150\Omega // 18nH$
2. Terminating load impedance (differential): $Z_L = 150\Omega // 18nH$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1420	-	-
Bandwidth at -2dB	MHz	60	71	-	-
Insertion Loss in 1390 ~ 1450MHz	dB	-	2.6	5	-
Amplitude ripple (1390MHz ~ 1450MHz)	dB	-	1.3	2	-
Phase error (1390 MHz ~ 1450MHz) (3)	deg	-	2.5	5	-
I/O VSWR (1390MHz ~ 1450MHz)		-	1.8	2.5	-
CMDR (1390MHz ~ 1450MHz)	dB	25	32	-	-
Attenuation (1)					
50 ~ 1320MHz	dB	42	49.5	-	-
1530 ~ 3000MHz	dB	42	49.5	-	-
3000 ~ 4000MHz	dB	30	32	-	-
4000 ~ 6000MHz	dB	15	20	-	-

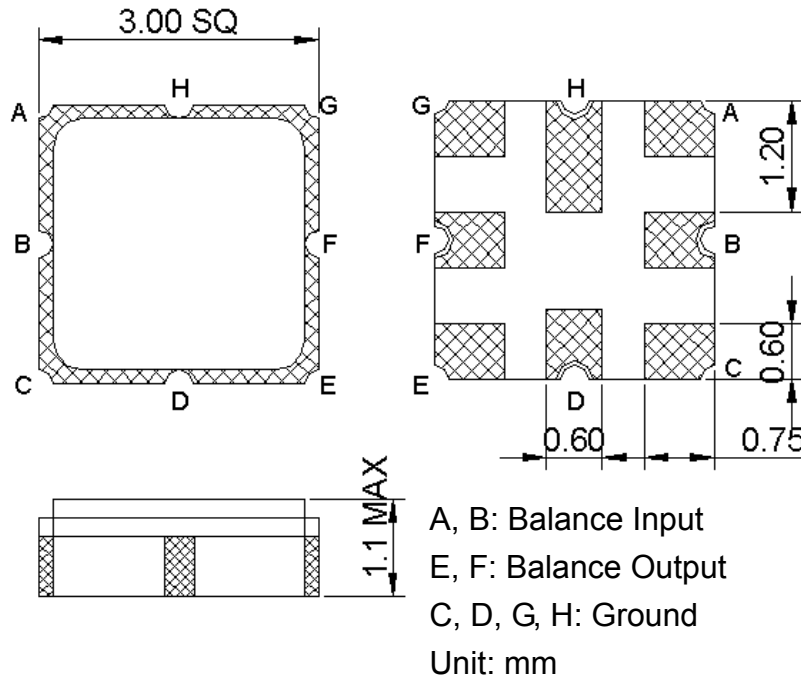
Notes:

1. The amplitude reference is insertion loss at Fc.
2. The amplitude ripple is defined as the max. level - min. level over any 36MHz block of the given bandwidth.
3. The phase error is measured over any 36MHz block of the given bandwidth.

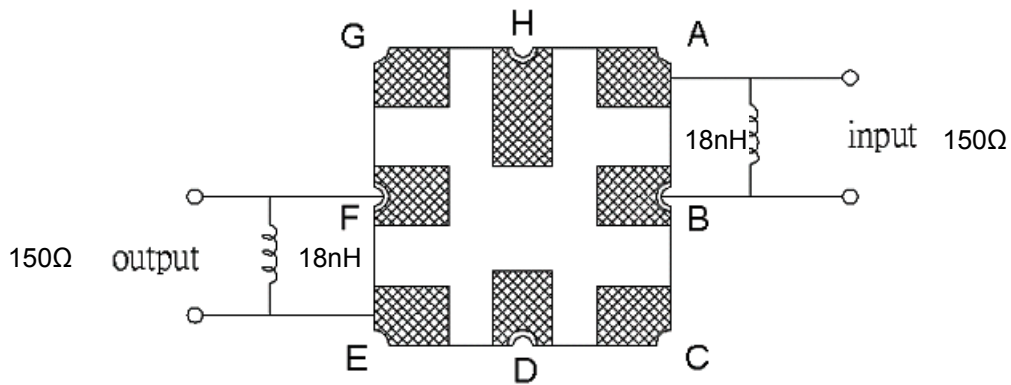
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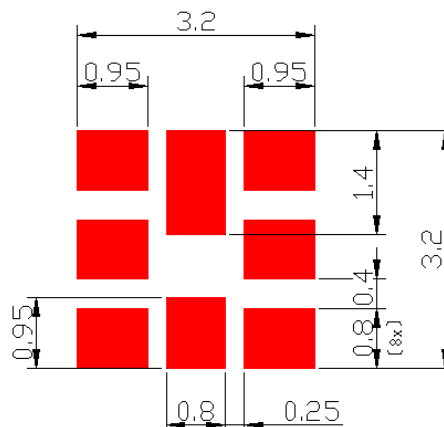
C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



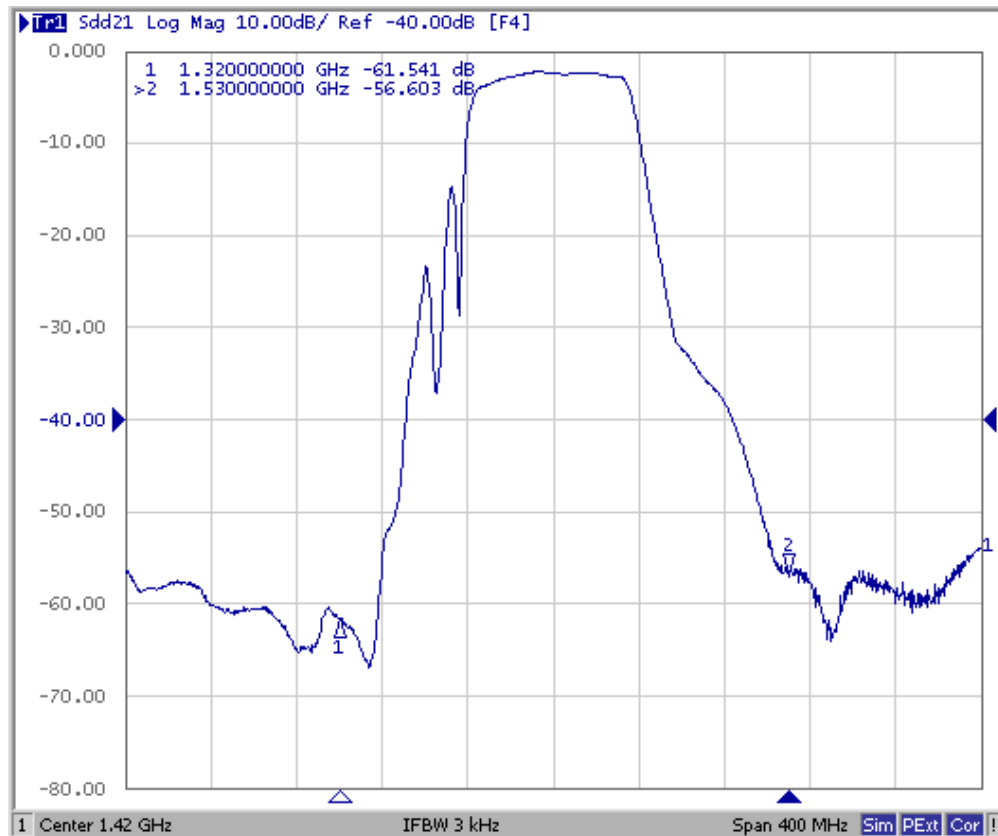
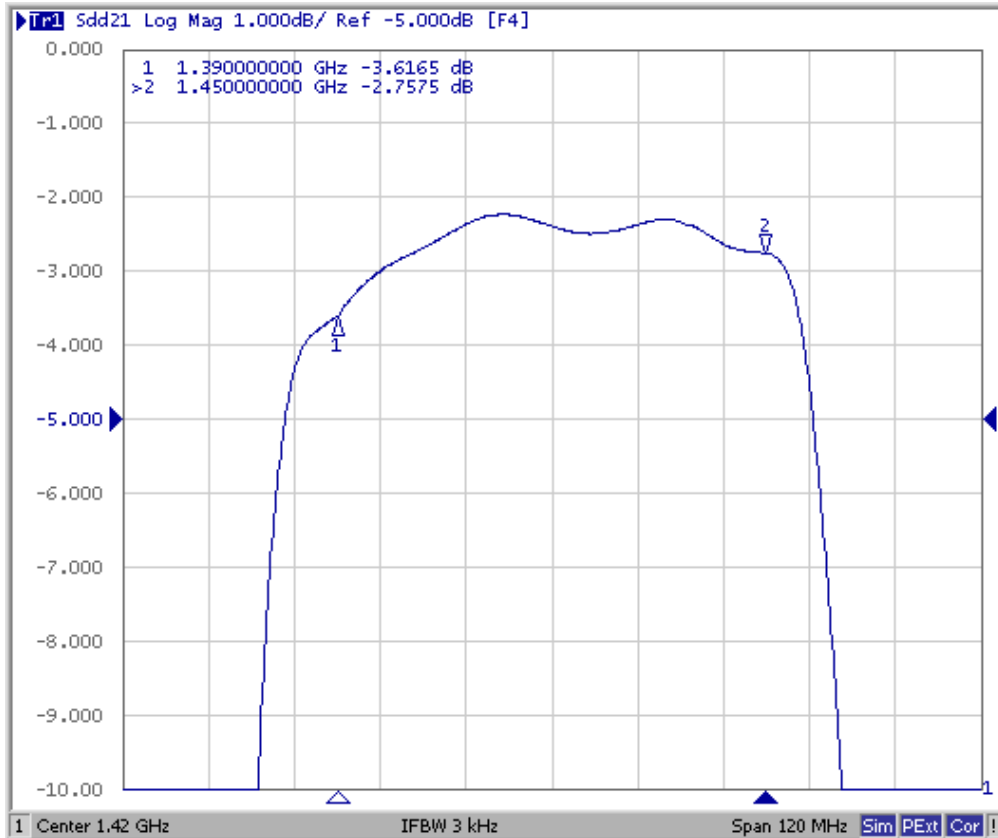
E. PCB FOOTPRINT:



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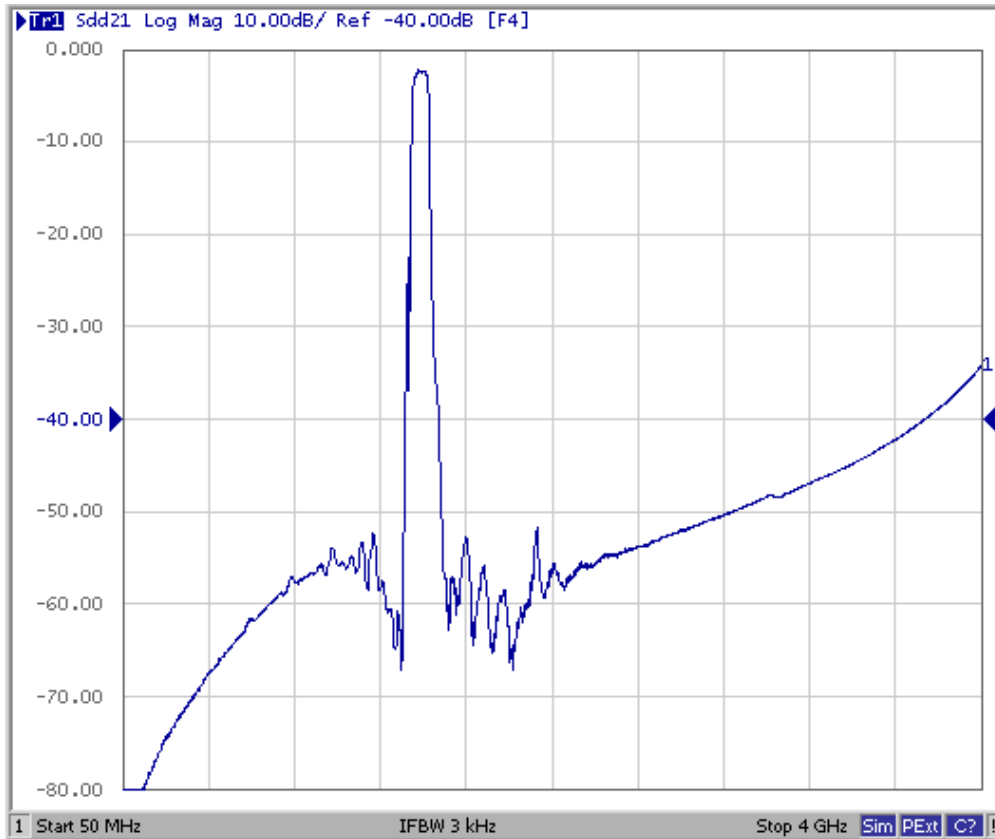
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F. FREQUENCY CHARACTERISTICS:



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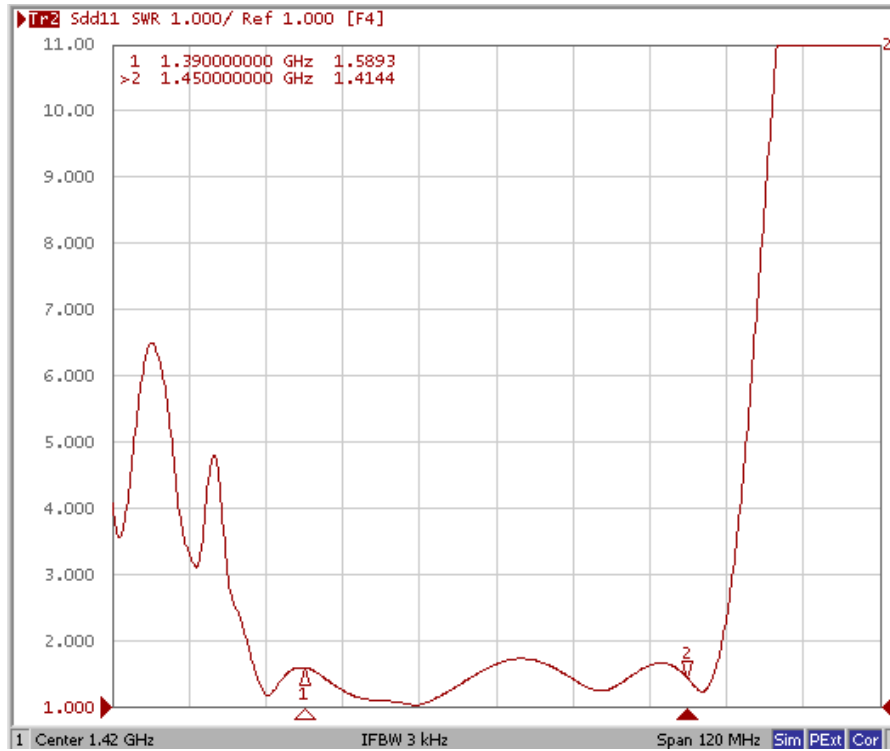


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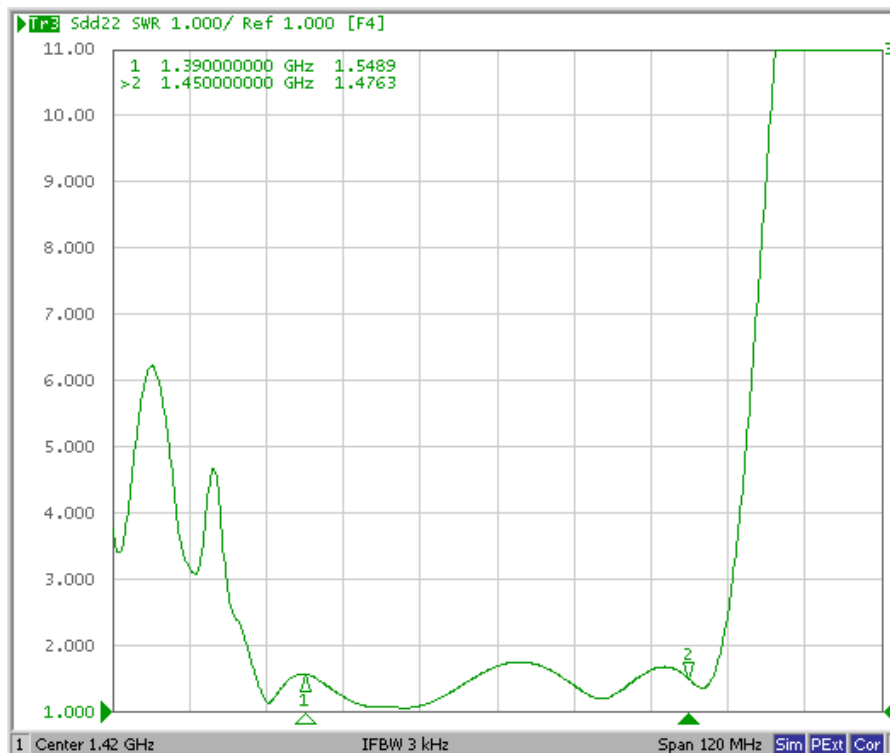
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Reflection Functions

S11



S22

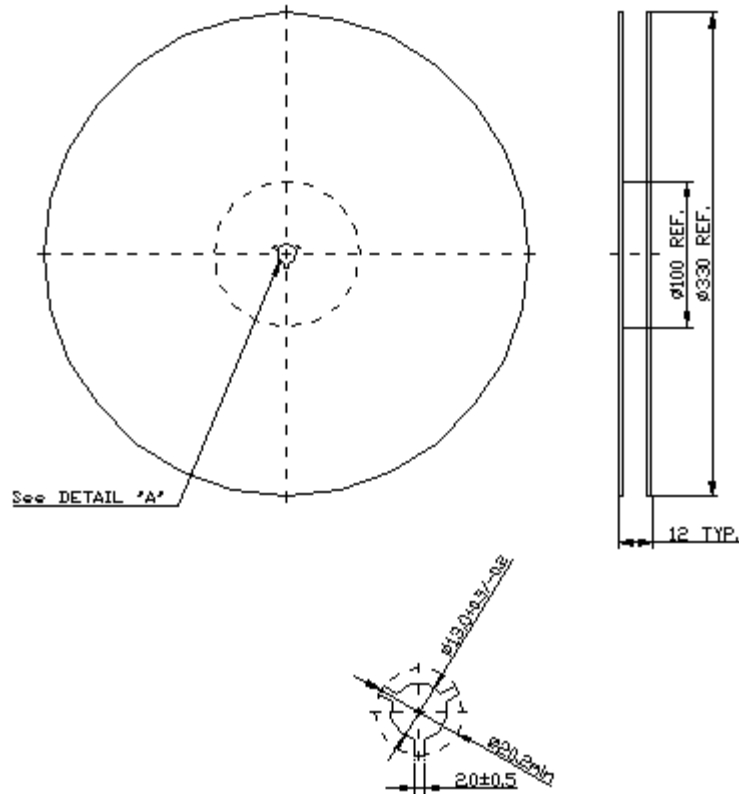


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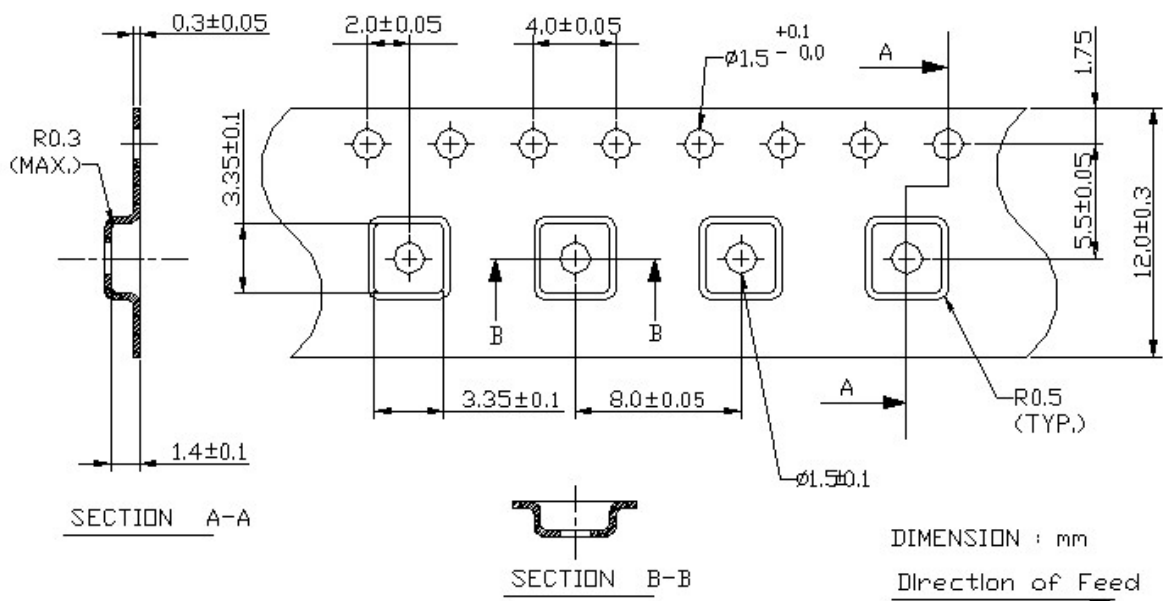
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G. PACKING:

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



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

