Maximum Rating

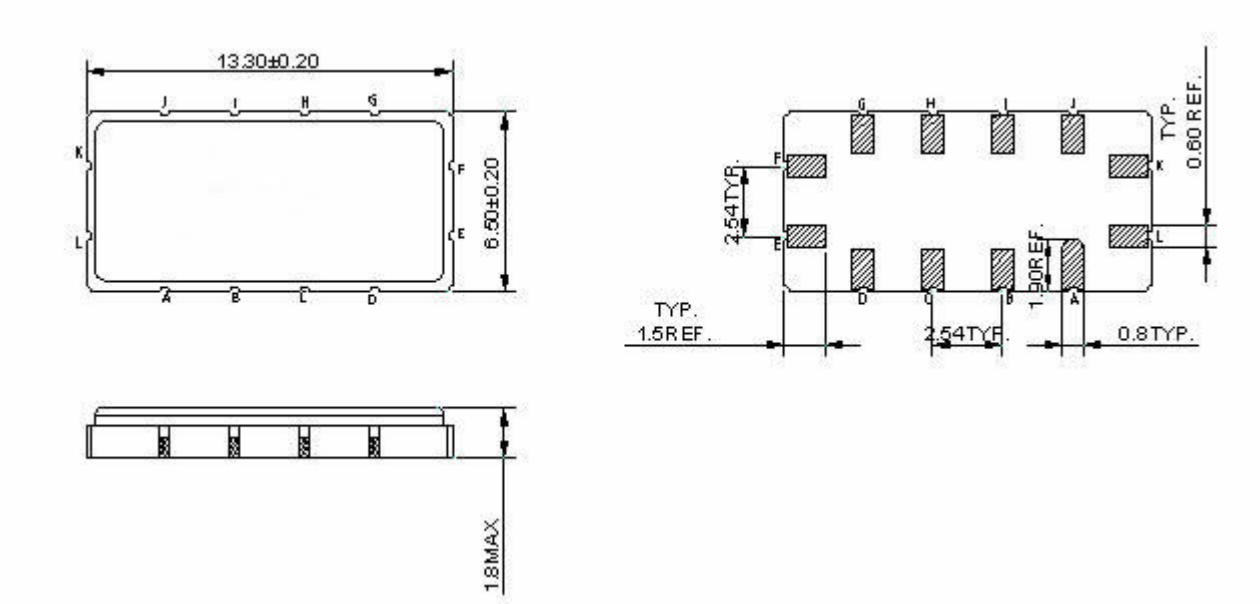
0. Maximum Input Power: 10 dBm
1.Operating Temperature: -40 °C ~ +85 °C
2. Storage Temperature: -40 °C ~ +85 °C

Electrical Characteristics

1. Ambient Temperature: 25 °

Characteristics		Value			Note
		Min.	Typ.	Max.	
Center frequency F_C	MHz	-	140.0	-	-
Maximum Insertion loss I.L.	dB	-	9.2	10.5	-
1dB Bandwidth	MHz	18.4	20.8	-	-
3dB Bandwidth	MHz	20.0	21.8	-	-
35dB Bandwidth	MHz	-	25.5	26.4	-
Passband Ripple (within 130.9~149.1MHz)	dB	-	0.75	1.00	-
Group Delay Ripple (within 130.9~149.1MHz)	nS	-	115	150	-
Absolute Group Delay	uS	-	1.05	-	-
Input VSWR (within 130.9~149.1MHz)	dB	-	2.0	2.5	-
Output VSWR (within 130.9~149.1MHz)	dB	-	1.7	2.3	-
Temp Coefficient	ppm/° C	-	-93	-	-
Attenuation:(Reference level from minimum insertion loss)					
1) 10 MHz~ 90 MHz	dB	35	62	-	-
2) 190 MHz~120MHz	dB	40	54	-	-
3) 120MHz ~ 126.8 MHz	dB	35	42	-	-
4) 154.7MHz ~ 160MHz	dB	35	45	-	-
5) 160MHz ~ 190 MHz	dB	40	43	-	-
6) 190MHz ~800MHz	dB	35	62	-	-

Outline Drawing



Pin configuration

#K RF Input

#L RF Input ground

#E RF Output

#F RF Output ground

#A, B, C, D, G, H, I, J To be ground

Frequency Characteristics

1. S21 Response

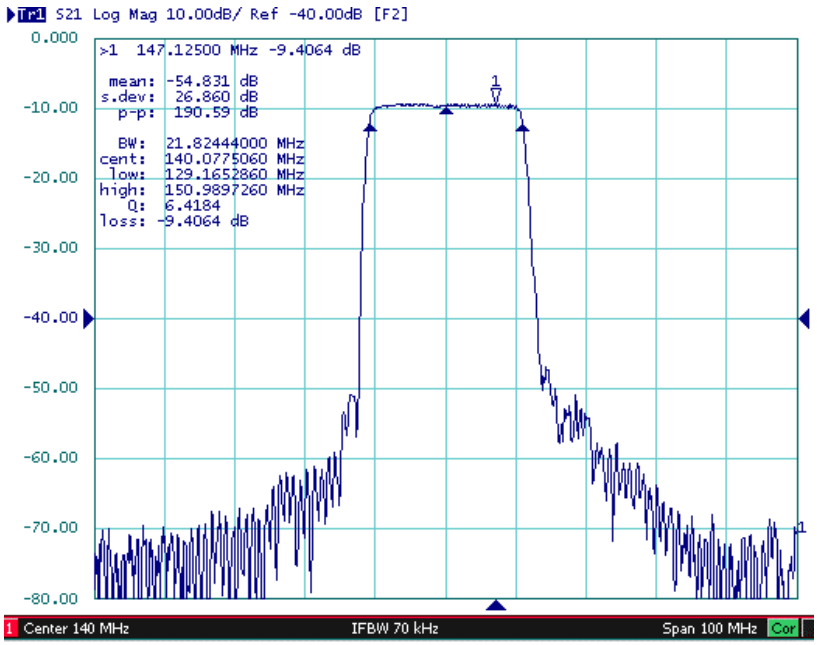


Fig. 1 S21 Response Horizontal: 10MHz/Div; Vertical: 10dB/Div

2. Pass band Ripple

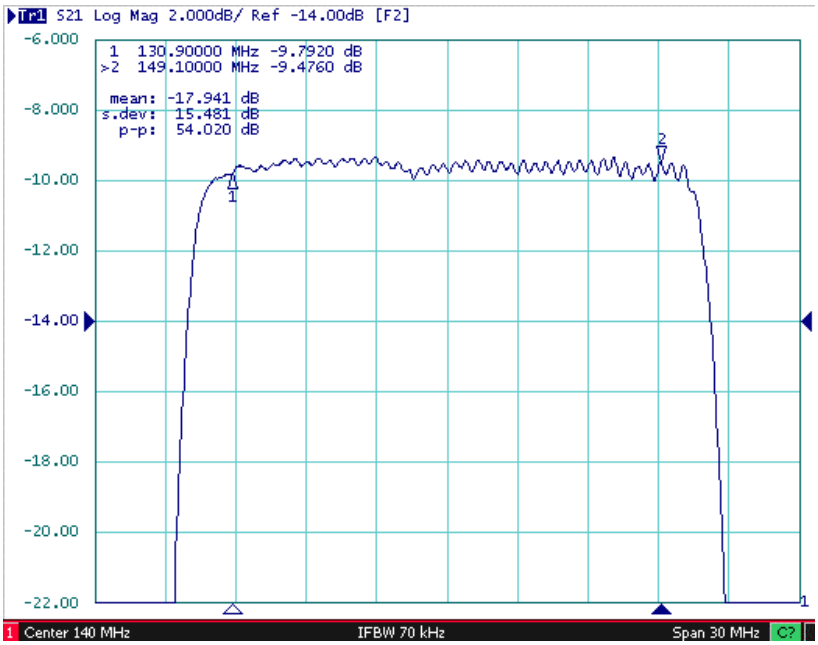


Fig. 2 Inband ripple Horizontal: 3MHz/Div; Vertical: 2dB/Div

3. Group Delay Ripple

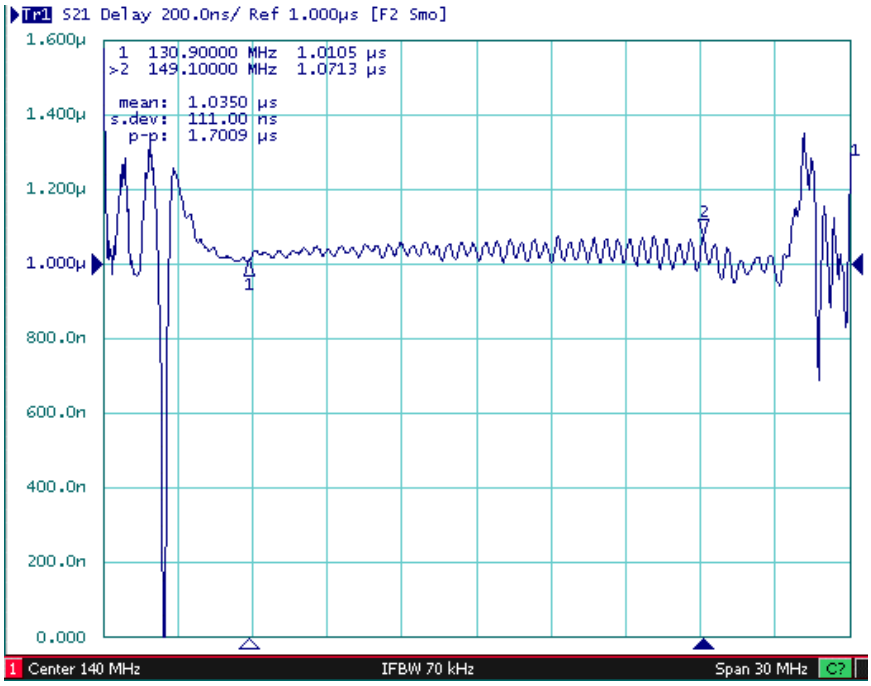


Fig. 3 Group Delay Horizontal: 3MHz/Div; Vertical: 200nS/Div

4. Wide band Response

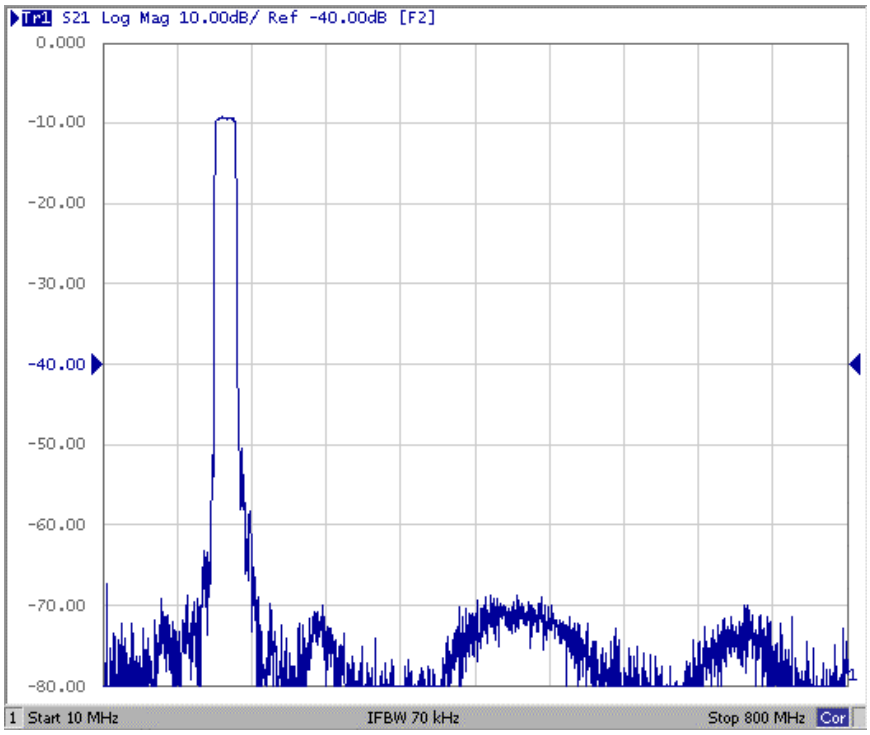
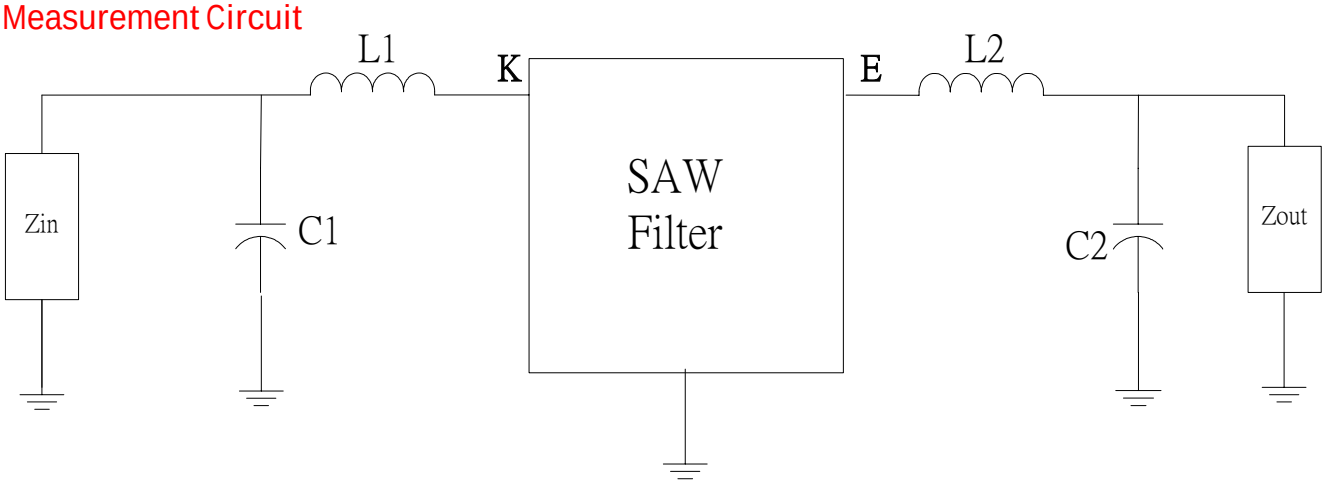


Fig. 3 Wide Band Horizontal: 10~800MHz; Vertical: 10dB/Div

Measurement Circuit

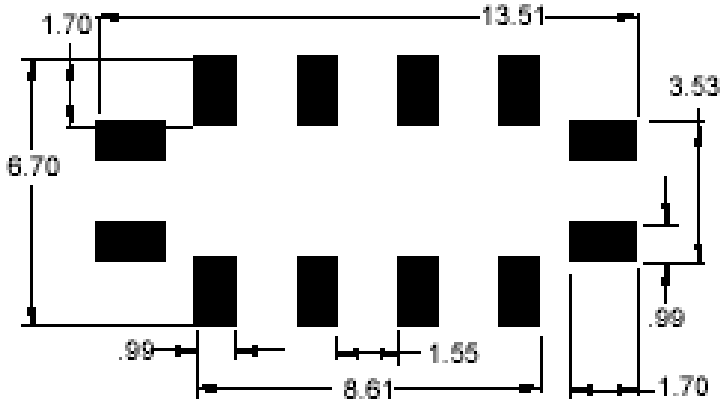


Zin=Zout= 50 ohm

L1=92nH, C1=22pF, L2=92nH, C2=33pF

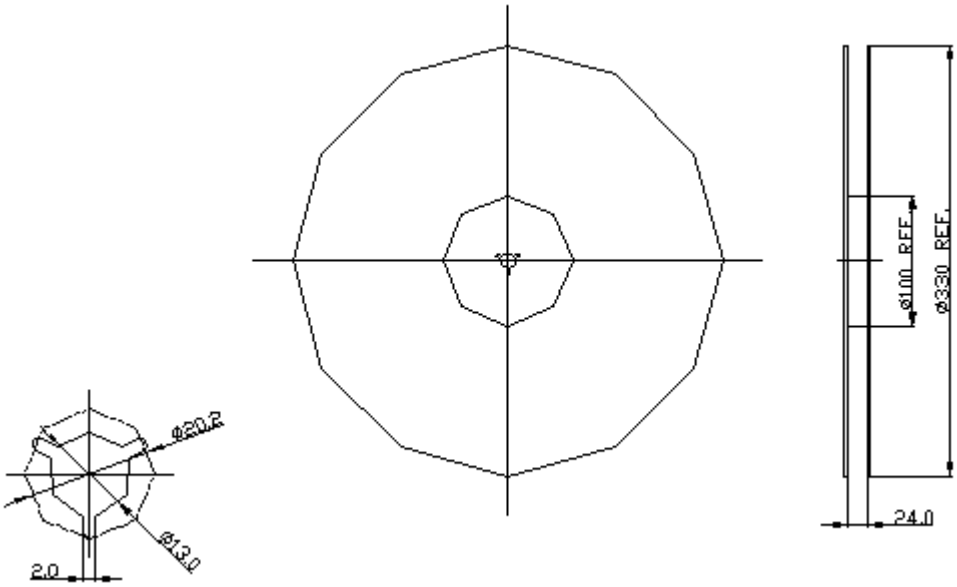
Note: The matching structure will change according to different test fixture.

PCB FootPrint

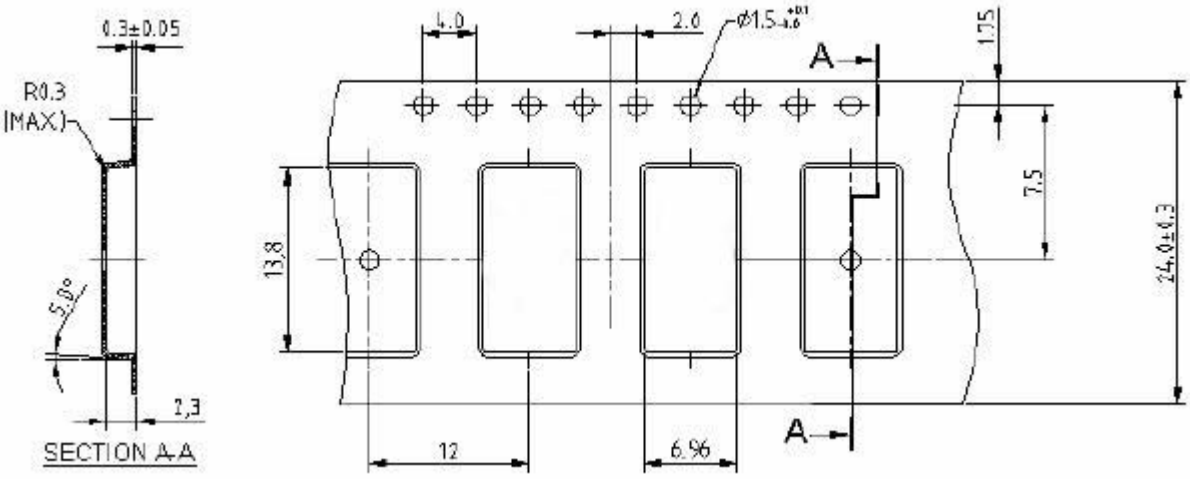


Packing

(1). REEL DIMENSION



(2). TAPE DIMENSION



Recommended Reflow Profile