

Specifications

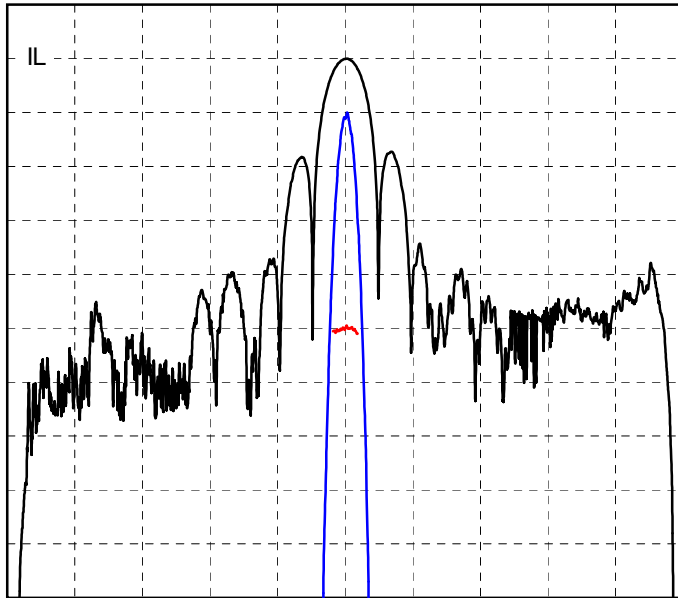
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		62.5	
Bandwidth (B)	MHz		5	
-3 dB Bandwidth (B3)	MHz	4.6	5	
-40 db Bandwidth (B40)	MHz		11.5	11.6
Delay (T0)	μsec	0.93	0.975	1.02
Insertion Loss (IL)	dB		25.9	27
Amplitude Ripple	dB p-p		2.2	3
Phase Ripple	deg p-p		1.1	2.5
Rejection	dB	46	50	
Spurious for t-T0 >.9T0	dB		-41	-40
Substrate Material		X112Y-LT		

Notes:

- Center Frequency (F0) and Bandwidth (B) are defined, not measured.
- Insertion Loss is the minimum loss for $|f-F0| < .5B$
- Ripple spec applies to the $|f-F0| < .4B$, and is doubled for $.4B < |f-F0| < .5B$
- Rejection spec applies to $(B40 \text{ Spec} - B/2) < |f-F0| < F0/2$
- Specifications are at 22C only. Unit will operate undamaged from -54C to 125C with shifts $dF0 = -x \cdot F0$, $dT0 = x \cdot T0$, where $x = 18E-6 \cdot (\text{temperature} - 22C)$

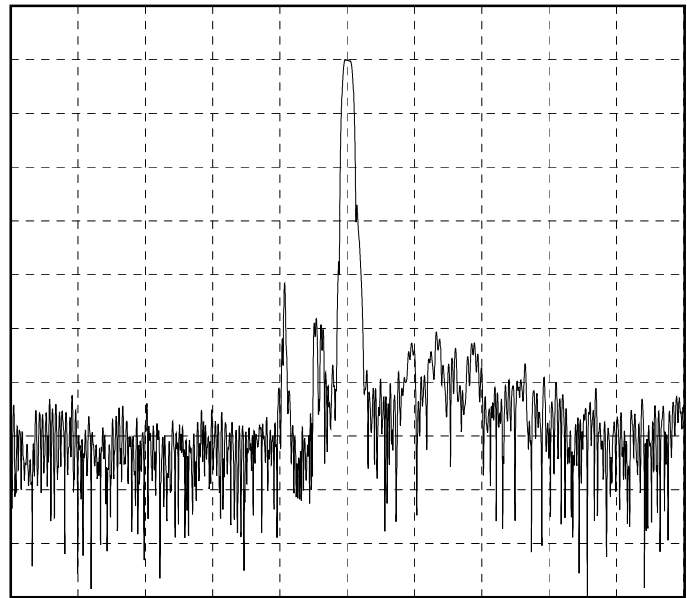
Typical Performance

Frequency Response
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 12 MHz/div

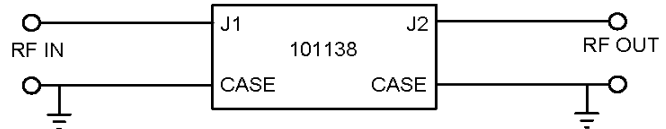
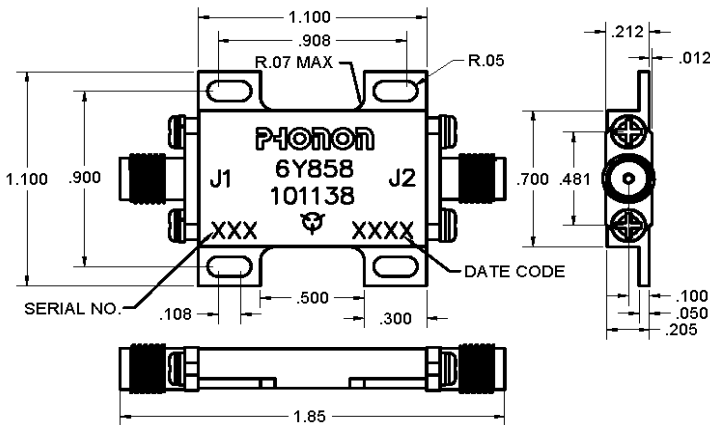
Impulse Response
 $FFT(\text{Frequency Response} \cdot \cos(0.5 \cdot \pi \cdot \min(1, \max(0, |f-F0| \cdot 2.0/32 - 1.0)))^2)$



10 dB/div, 1 us/div

Package Outline

Matching



Matched S-parameters available at www.phonon.com