

Specifications

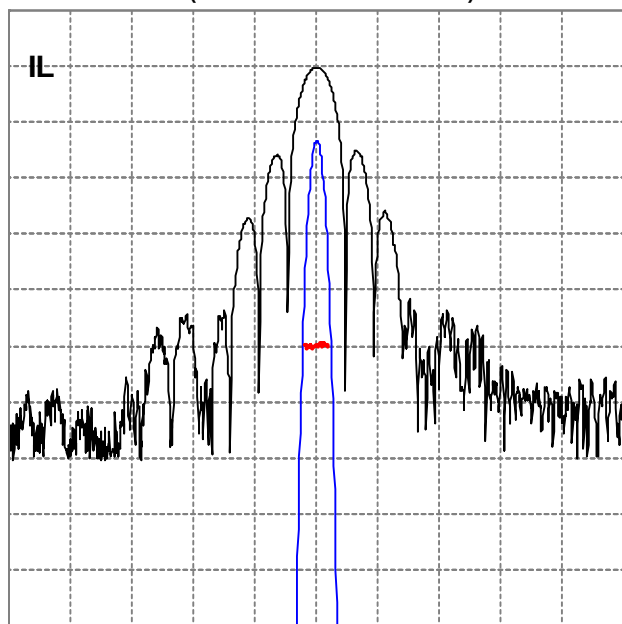
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		82.5	
Bandwidth (B)	MHz		5	
-3 dB Bandwidth (B3)	MHz	4.5	5	
-40 dB Bandwidth (B40)	MHz		48	49
Delay (T0)	μsec	0.93	0.976	1.025
Insertion Loss (IL)	dB		25.6	28
Amplitude Ripple	dB p-p		2.1	3
Phase Ripple	deg p-p		1.1	1.5
Rejection	dB	40	42	
Spurious for $ t-T0 > .9T0$	dB		-39	-35
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

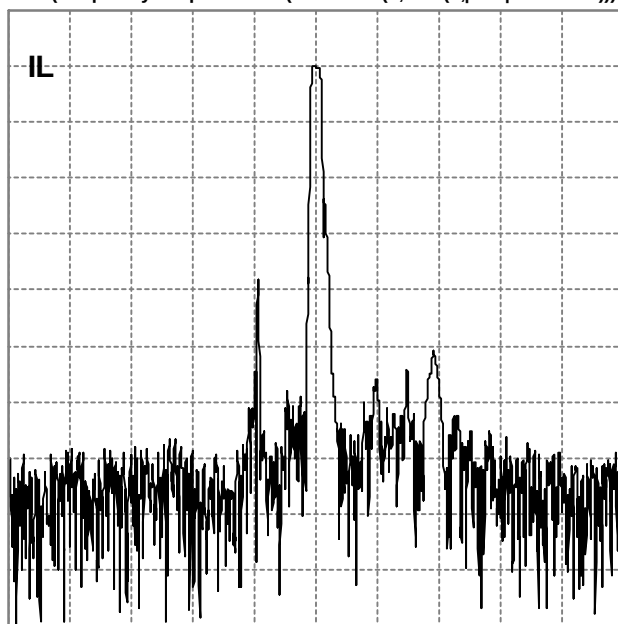
Frequency Response
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 12.000 MHz/div

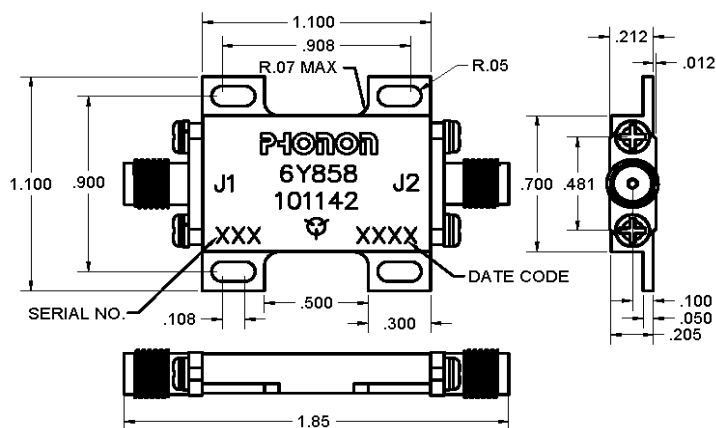
Impulse Response

FFT(Frequency Response * Cos(0.5 * Pi * MIN(1, MAX(0, |f-F0| * 2.0 / 32 - 1.0))) ^ 2)

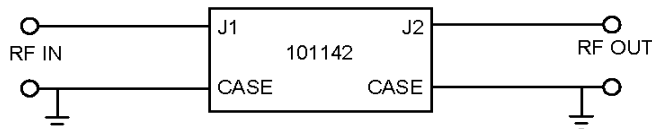


10 dB/div, 1.000 us/div

Package Outline



Matching



Matched S-parameters available at www.phonon.com