

Specifications

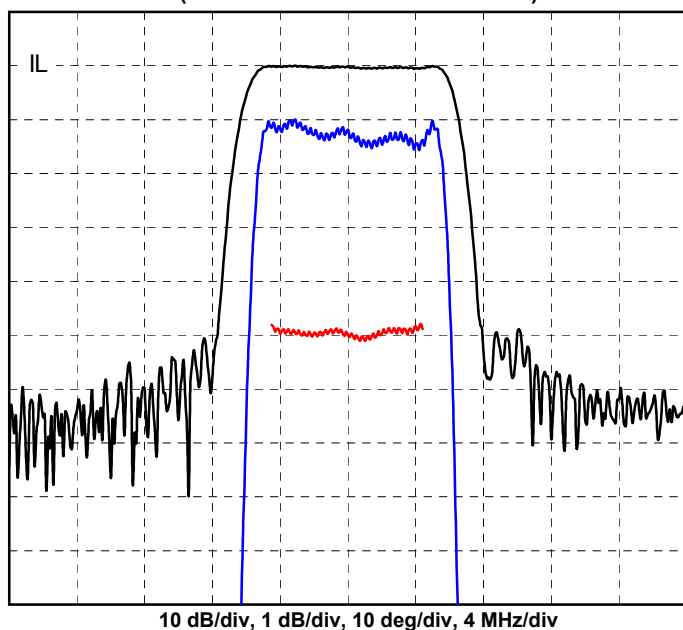
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		165	
Bandwidth (B)	MHz		10	
-3 dB Bandwidth (B3)	MHz	11.6	11.7	
-40 dB Bandwidth (B40)	MHz		15	15.1
Delay (T0)	μsec	1.6	1.607	1.61
Insertion Loss (IL)	dB		19.9	20.5
Amplitude Ripple	dB p-p		0.6	0.8
Phase Ripple	deg p-p		2.4	3
Rejection	dB	54	58	
Spurious for $ t-T0 > .9T0$	dB		-42	-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 22°C only. Unit will operate undamaged from -54°C to 125°C with shifts $dF0 = -x \cdot F0$, $dT0 = x \cdot T0$, where $x = 18E-6 \cdot (\text{temperature} - 22^\circ\text{C})$

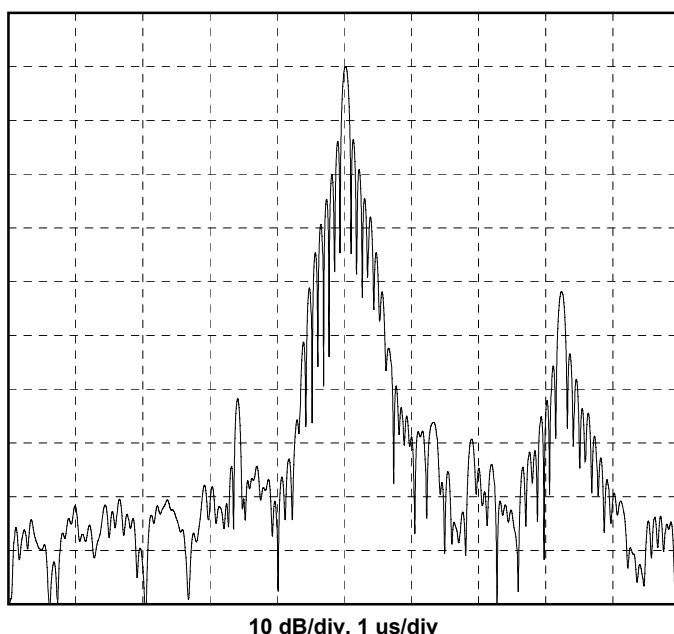
Typical Performance

Frequency Response
(Best Fit Linear Phase Removed)

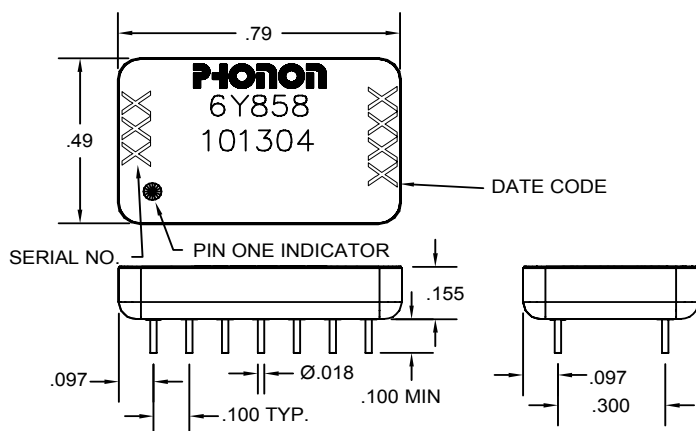


Impulse Response

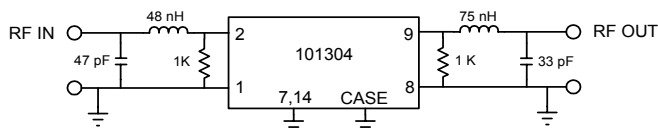
FFT(Frequency Response * Cos(0.5 * PI * MIN(1, MAX(0, |f-F0| * 2.0 / B - 1.0)))^2)



Package Outline



Matching



Matched S-parameters available at www.phonon.com