

Specifications

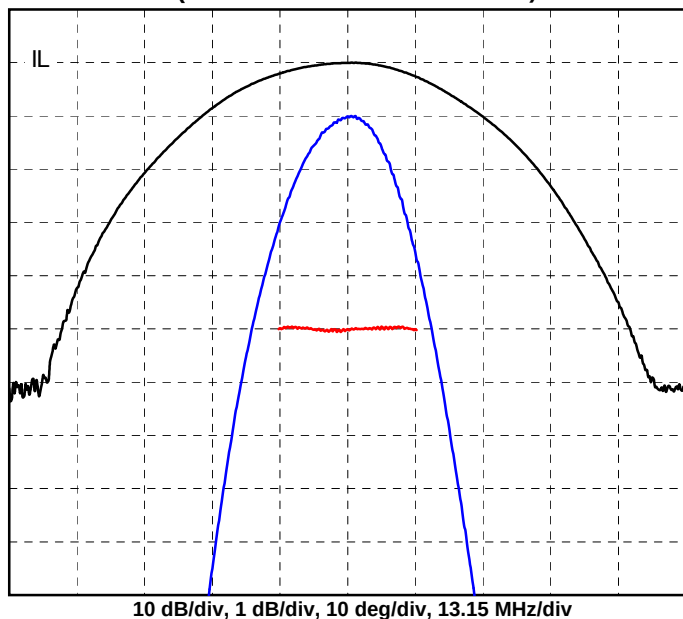
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		160	
Bandwidth (B)	MHz		30	
Delay (T0)	μsec	4.6	5.208	5.84
Insertion Loss (IL)	dB		22.6	24
Amplitude Ripple	dB p-p		2	2.5
Phase Ripple	deg p-p		1.2	3
Spurious for $ t-T0 > .9T0$	dB		-57	-52
Substrate Material	128YX-LN			

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 $|f-F0| < .4B$, and is doubled for $.4B < |f-F0| < .5B$
- Specifications are at 22C only. Unit will operate undamaged from -54C to 125C with shifts $dF0 = -x \cdot F0$, $dT0 = x \cdot T0$, where $x = 75E-6 \cdot (\text{temperature} - 22C)$

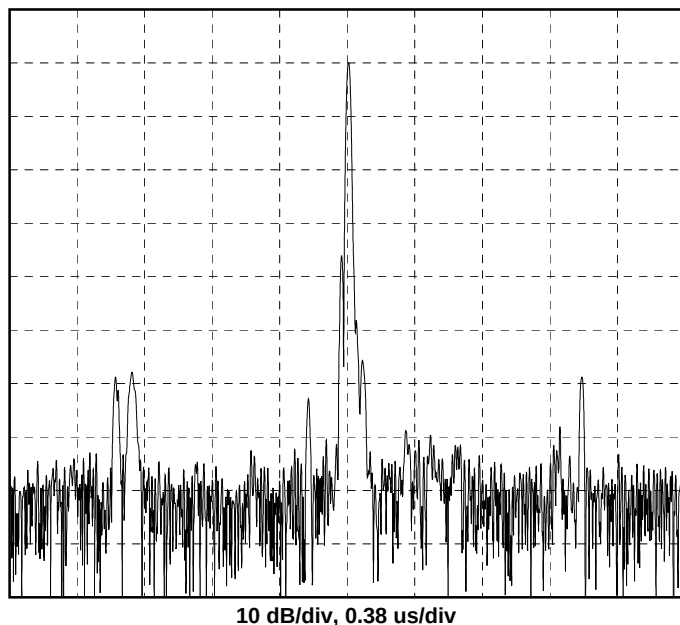
Typical Performance

Frequency Response
(Best Fit Linear Phase Removed)



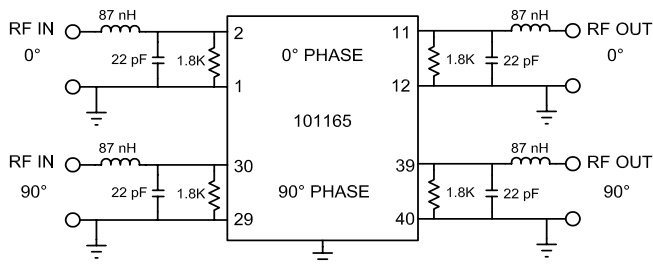
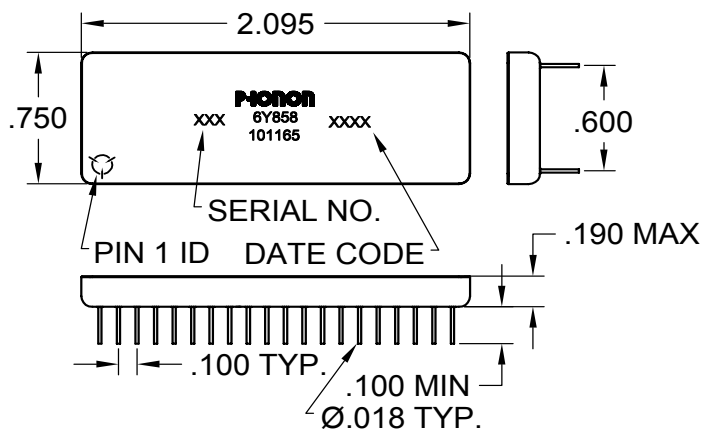
Impulse Response

$FFT(\text{Frequency Response} \cdot \cos(0.5 \cdot \pi \cdot \min(1, \max(0, |f-F0| \cdot 17.2 / (118-8.6))))^2$



Package Outline

Matching



Matched S-parameters available at www.phonon.com