

Specifications

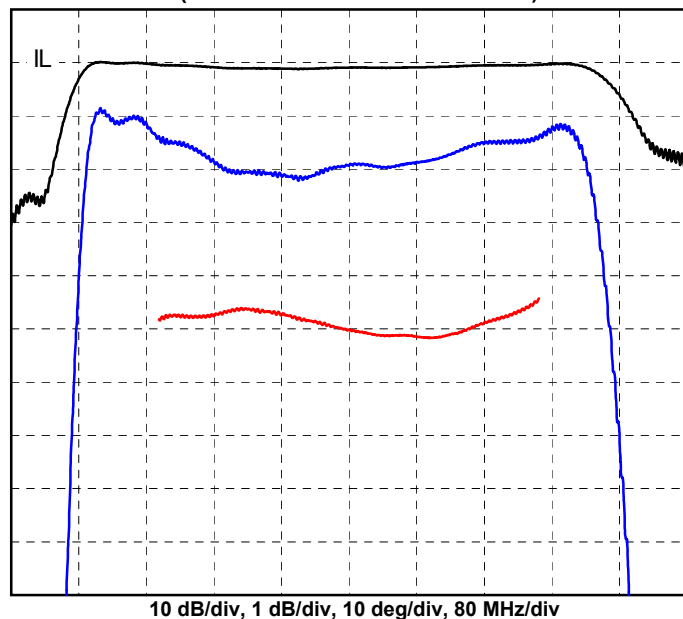
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		1000	
Bandwidth (B)	MHz		550	
Delay (T0)	μsec	1.79	1.797	1.8
Insertion Loss (IL)	dB		35.4	39
Amplitude Ripple	dB p-p		0.8	1.6
Phase Ripple	deg p-p		6.5	14
Spurious for $ t-T0 > .9T0$	dB		-50	-48
Substrate Material	YZ-LN			

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 $x = 94E-6 \cdot (\text{temperature} - 22C)$

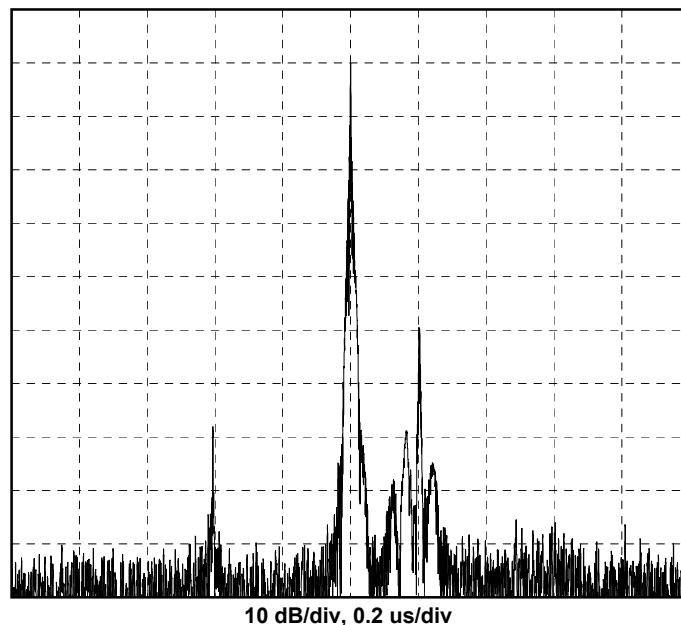
Typical Performance

Frequency Response
(Best Fit Linear Phase Removed)



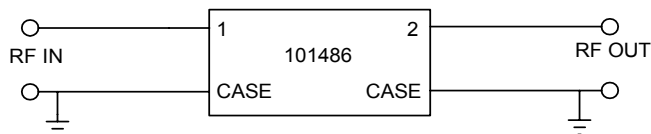
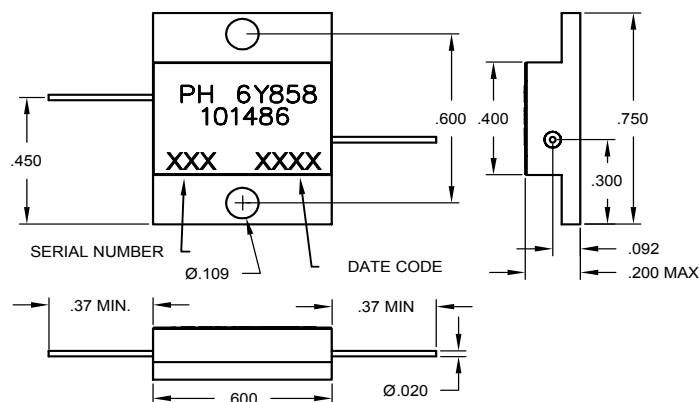
Impulse Response

FFT(Frequency Response * Cos(0.5 * PI * MIN(1, MAX(0, |f-F0| * 4.4/B - 2.2)))^2)



Package Outline

Matching



Matched S-parameters available at www.phonon.com