

Specifications

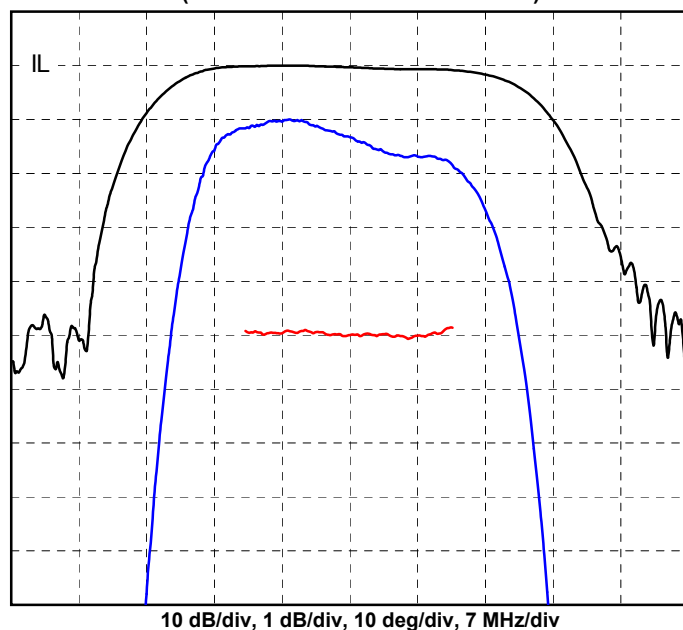
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		70	
Bandwidth (B)	MHz		24	
-3 dB Bandwidth (B3)	MHz	34.1	33.6	
-40 dB Bandwidth (B40)	MHz		56	56.4
Delay (T0)	μsec	0.605	0.606	0.61
Insertion Loss (IL)	dB		37.3	41
Amplitude Ripple	dB p-p		0.8	1.2
Phase Ripple	deg p-p		1.5	3
Rejection	dB	33	40	
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 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 $x = 75E-6 \cdot (\text{temperature} - 22C)$

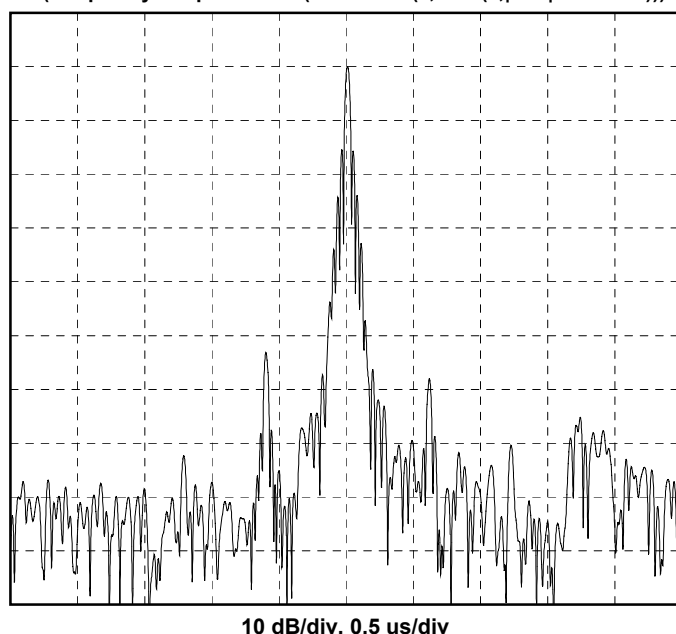
Typical Performance

Frequency Response
(Best Fit Linear Phase Removed)

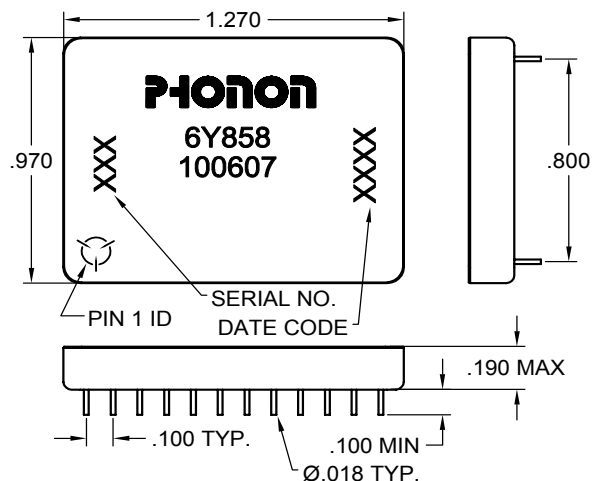


Impulse Response

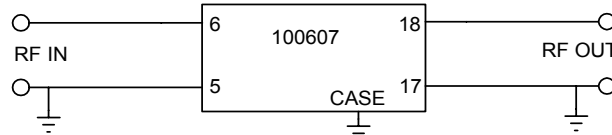
FFT(Frequency Response * Cos(0.5 * PI * MIN(1, MAX(0, |f-F0| * 2.0 / B - 1.0)))^2)



Package Outline



Matching



Matched S-parameters available at www.phonon.com