

Specifications

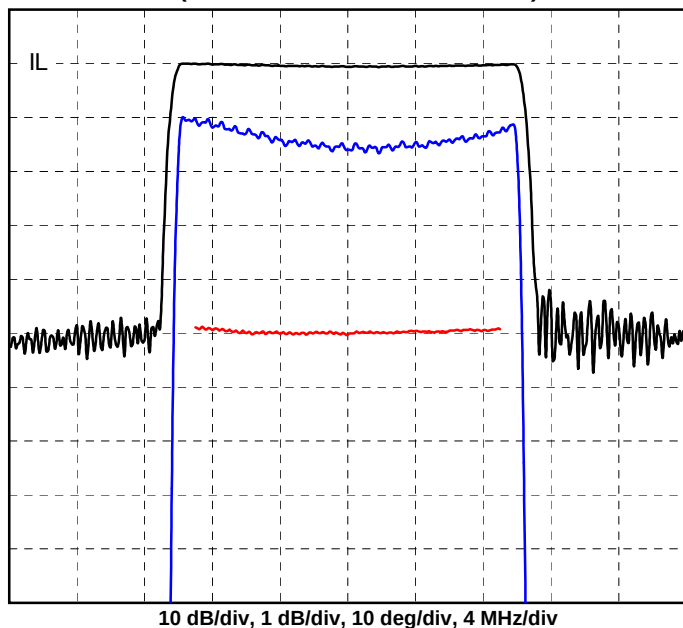
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		230	
Bandwidth (B)	MHz		20	
-3 dB Bandwidth (B3)	MHz	20.3	20.4	
-40 db Bandwidth (B40)	MHz		22	22.3
Delay (T0)	μsec	2.54	2.547	2.56
Insertion Loss (IL)	dB		36.5	40
Amplitude Ripple	dB p-p		0.6	0.8
Phase Ripple	deg p-p		1.2	1.5
Rejection	dB	40	45	
Spurious for $ t-T0 >.9T0$	dB		-48	-46
Substrate Material	40YX-Q			

Notes:

1. Center Frequency (F0) and Bandwidth (B) are defined, not measured.
2. Insertion Loss is the minimum loss for $|f-F0|<.5B$
3. Ripple spec applies to the $|f-F0|<.4B$, and is doubled for $.4B<|f-F0|<.5B$
4. Rejection spec applies to $(B40 \text{ Spec} - B/2)<|f-F0|<F0/2$
5. Specifications are at 22C only. Unit will operate undamaged from -54C to 125C with shifts $dF0 = -x \cdot F0$, $dT0 = x \cdot T0$, where $x = 3E-8 \cdot (\text{temperature} - 22C)^2$

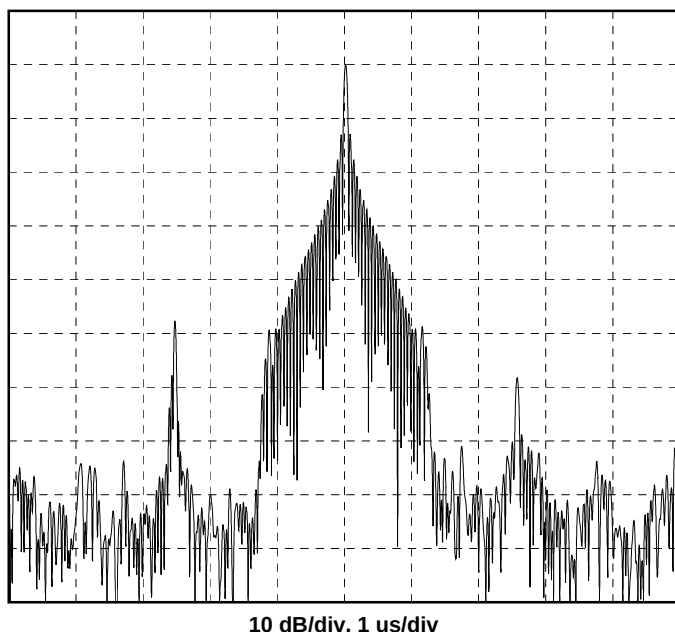
Typical Performance

Frequency Response
(Best Fit Linear Phase Removed)

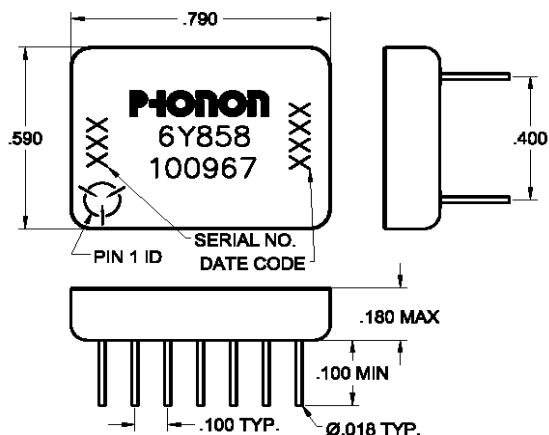


Impulse Response

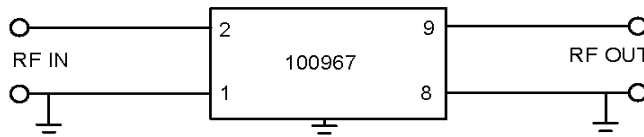
$FFT(\text{Frequency Response} \cdot \cos(0.5 \cdot \pi \cdot \min(1, \max(0, |f-F0| \cdot 2.0/20 - 1.0)))^2)$



Package Outline



Matching



Matched S-parameters available at www.phonon.com