

Specifications

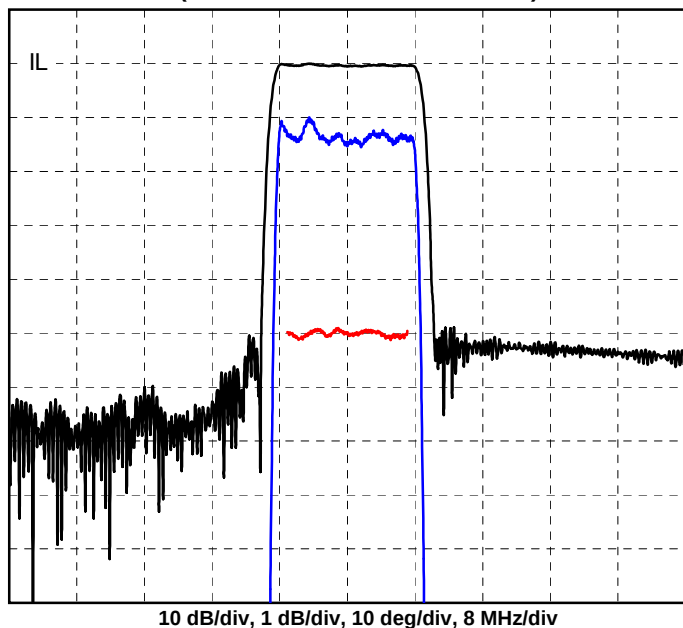
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		500	
Bandwidth (B)	MHz		16	
-3 dB Bandwidth (B3)	MHz	17.1	17.2	
-40 dB Bandwidth (B40)	MHz		20	20.1
Delay (T0)	μsec	1.83	1.839	1.85
Insertion Loss (IL)	dB		25	26
Amplitude Ripple	dB p-p		0.5	1
Phase Ripple	deg p-p		2.1	4
Rejection	dB	40	45	
Spurious for $ t-T0 > .9T0$	dB		-45	-40
Substrate Material	34YX-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 $x = 3E-8 \cdot (\text{temperature} - 22C)^2$

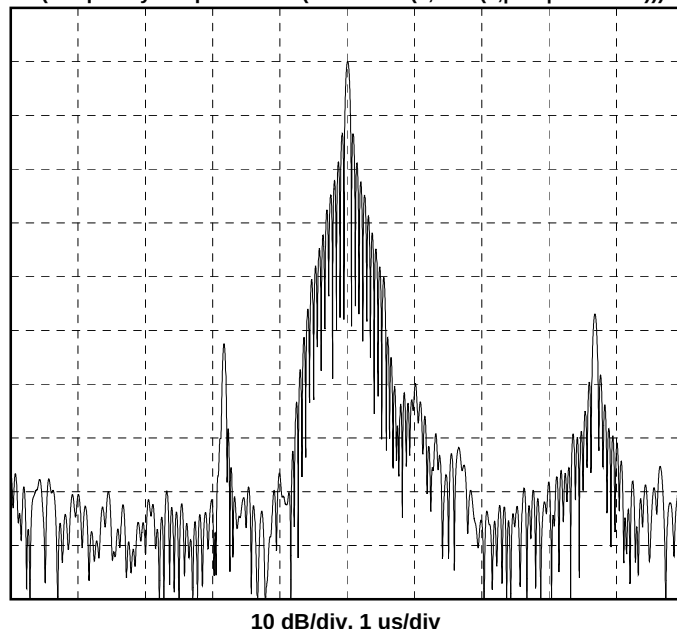
Typical Performance

Frequency Response
(Best Fit Linear Phase Removed)

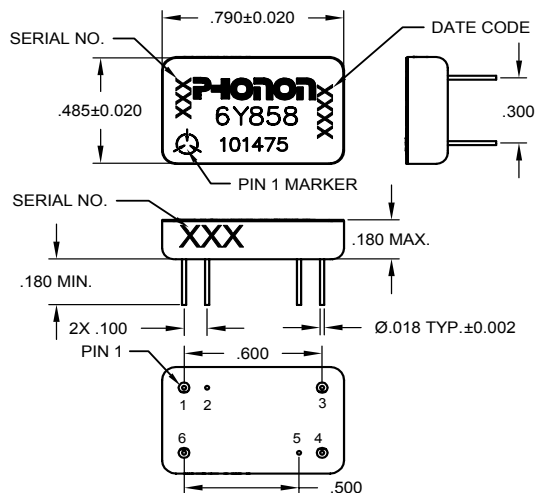


Impulse Response

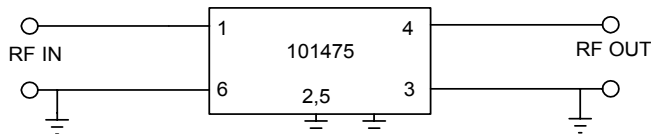
FFT(Frequency Response * Cos(0.5 * PI * MIN(1, MAX(0, |f-F0| * 2.0/B - 1.0))))^2)



Package Outline



Matching



Matched S-parameters available at www.phonon.com