

Specifications

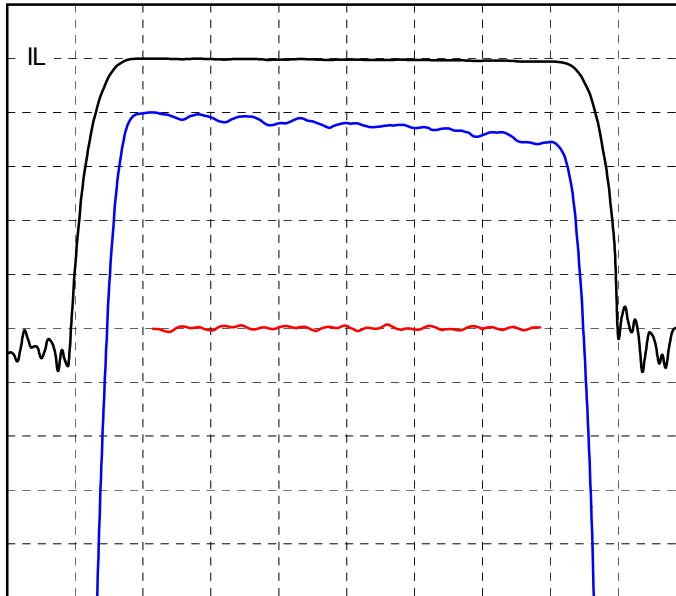
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		70	
Bandwidth (B)	MHz		16	
-3 dB Bandwidth (B3)	MHz	17.2	17.3	
-40 db Bandwidth (B40)	MHz		19.9	20
Delay (T0)	μsec	1.29	1.308	1.32
Insertion Loss (IL)	dB		30.2	32
Amplitude Ripple	dB p-p		0.4	1
Phase Ripple	deg p-p		1.3	2
Rejection	dB	48	52	
Spurious for t-T0 >.9T0	dB		-56	-50
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

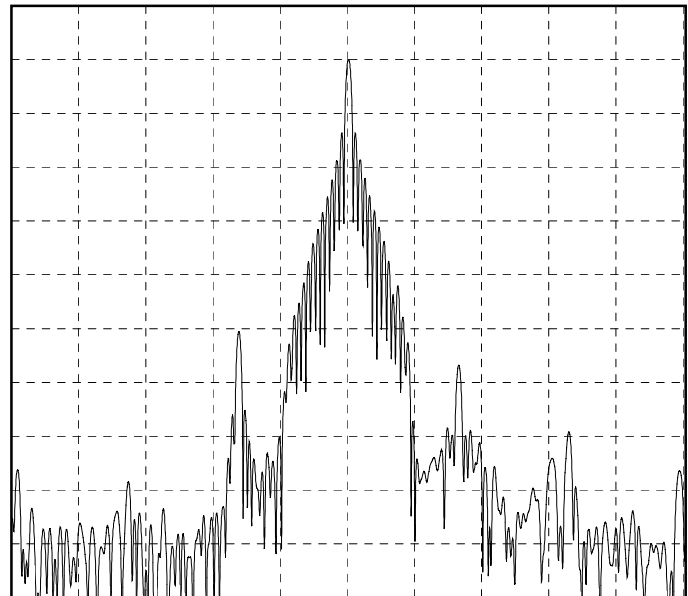
Frequency Response
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 2.5 MHz/div

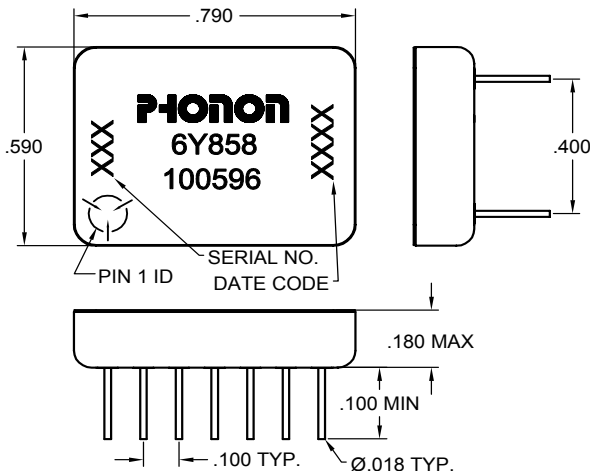
Impulse Response

FFT(Frequency Response * Cos(0.5 * PI * MIN(1, MAX(0, |f-F0| * 3.6/B - 1.8)))^2)

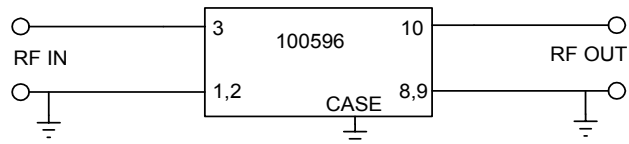


10 dB/div, 0.8 us/div

Package Outline



Matching



Matched S-parameters available at www.phonon.com