

Specifications

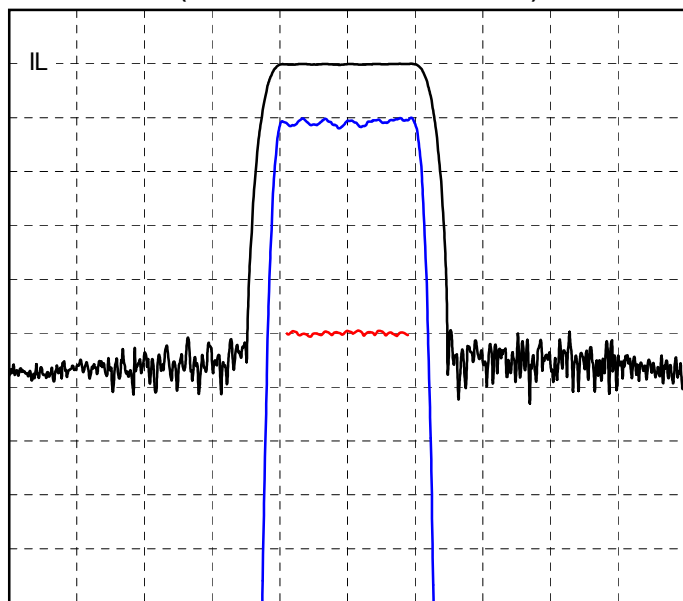
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		29.75	
Bandwidth (B)	MHz		6	
-3 dB Bandwidth (B3)	MHz	6.9	7	
-40 dB Bandwidth (B40)	MHz		8.7	8.8
Delay (T0)	μsec	2.08	2.095	2.1
Insertion Loss (IL)	dB		31.4	32
Amplitude Ripple	dB p-p		0.2	0.5
Phase Ripple	deg p-p		1.1	2
Rejection	dB	46	50	
Spurious for $ t-T0 > .9T0$	dB		-54	-48
Substrate Material	YZ-LN			

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

Typical Performance

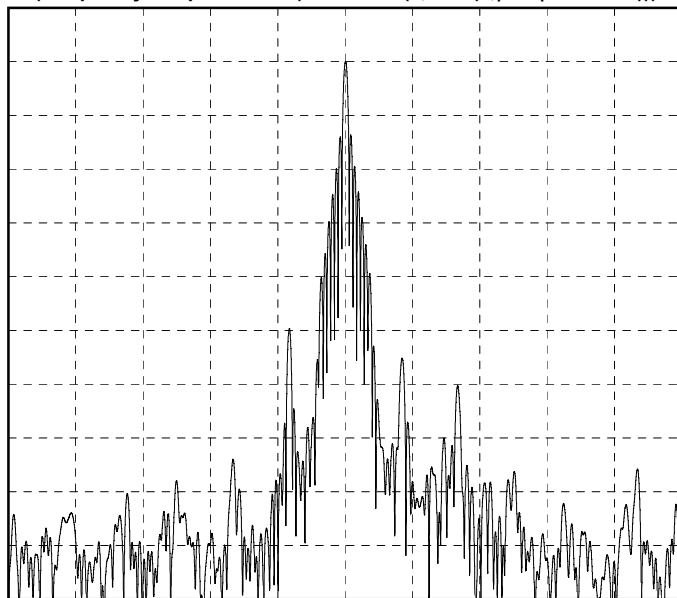
Frequency Response
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 3 MHz/div

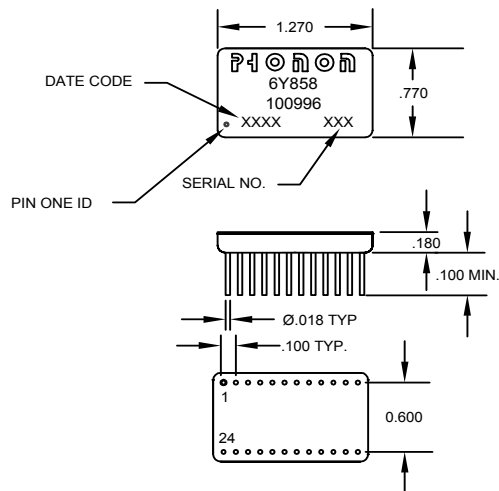
Impulse Response

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

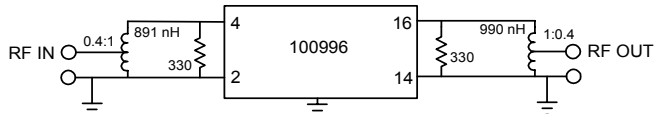


10 dB/div, 2.5 μs/div

Package Outline



Matching



Matched S-parameters available at www.phonon.com