

Specifications

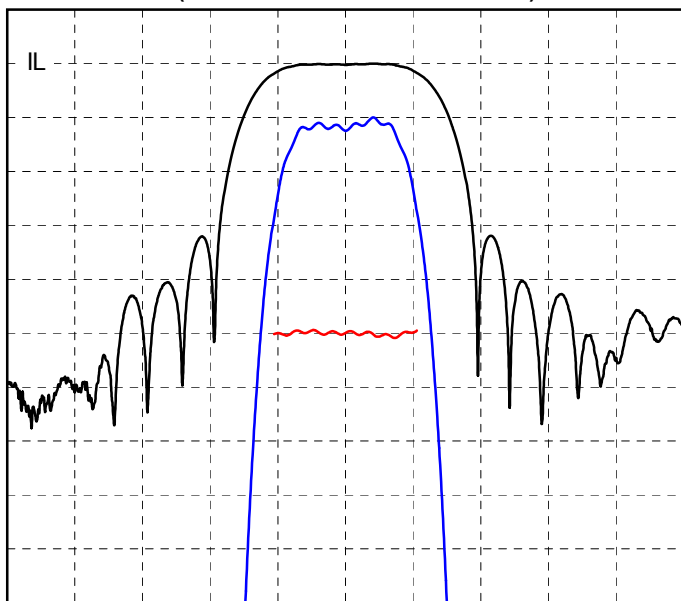
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		70	
Bandwidth (B)	MHz		1.6667	
-3 dB Bandwidth (B3)	MHz	1.6	1.7	
-40 db Bandwidth (B40)	MHz		2.7	2.8
Delay (T0)	μsec	2.68	2.687	2.7
Insertion Loss (IL)	dB		21.5	22
Amplitude Ripple	dB p-p		1.1	1.5
Phase Ripple	deg p-p		1.5	2
Rejection	dB	39	42	
Spurious for t-T0 >.9T0	dB		-46	-44
Substrate Material			STQ	

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 $x = 3E-8 \cdot (\text{temperature} - 22C)^{\wedge}2$

Typical Performance

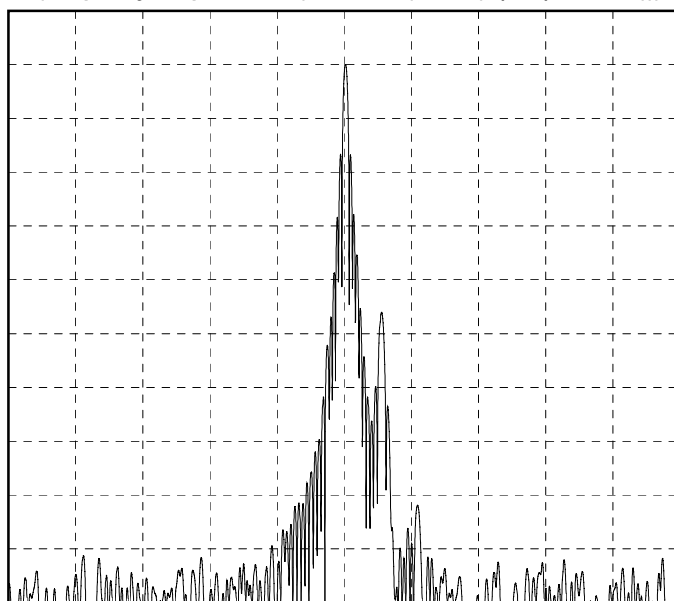
Frequency Response
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 0.7 MHz/div

Impulse Response

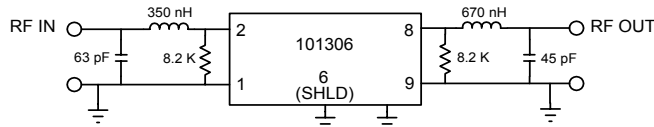
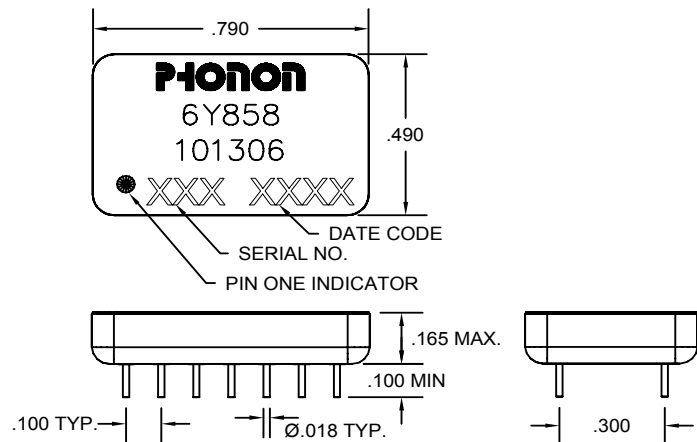
FFT(Frequency Response * Cos(0.5 * PI * MIN(1, MAX(0, |f-F0| * 2.0 / B - 1.0)))^2)



10 dB/div, 10.00 us/div

Package Outline

Matching



Matched S-parameters available at www.phonon.com