

Specifications

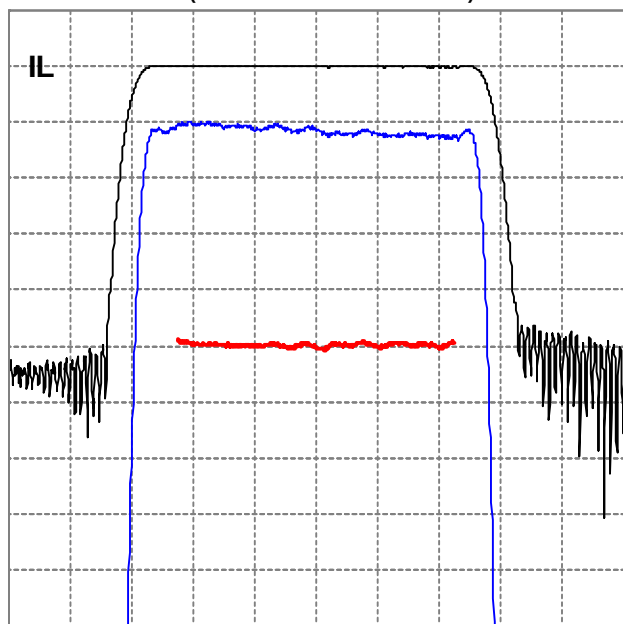
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		304	
Bandwidth (B)	MHz		50	
Delay (T0)	μsec	0.99	1.001	1.01
Insertion Loss (IL)	dB		25.3	26
Amplitude Ripple	dB p-p		0.3	0.5
Phase Ripple	deg p-p		1.5	2
Spurious for $ t-T0 > .9T0$	dB		-53	-52
Substrate Material	128YX-LN			

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 $|f-F0| < .4B$, and is doubled for $.4B < |f-F0| < .5B$
- 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

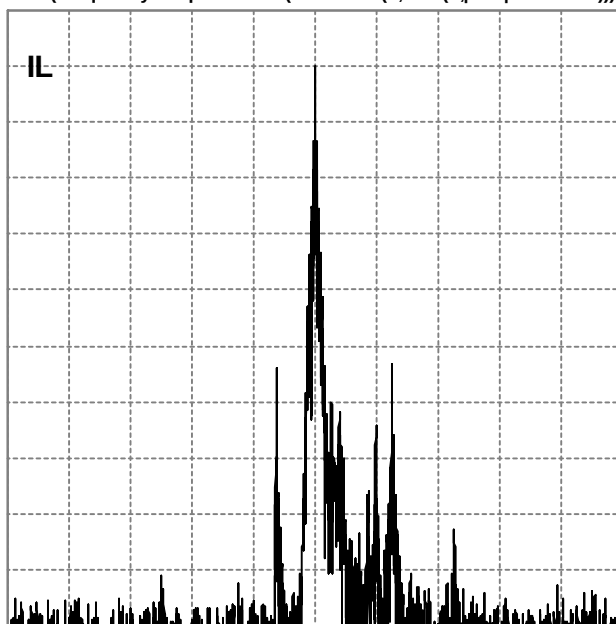
Frequency Response
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 10.000 MHz/div

Impulse Response

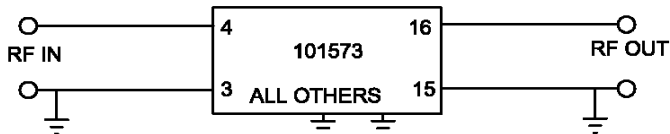
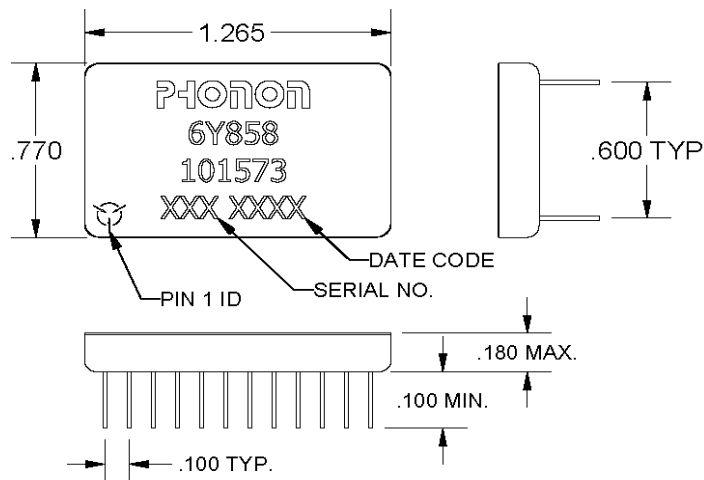
FFT(Frequency Response * Cos(0.5 * PI * MIN(1, MAX(0, |f-F0| * 2.0/50 - 1.0))) ^ 2)



10 dB/div, 1.600 us/div

Package Outline

Matching



Matched S-parameters available at www.phonon.com