

Specifications

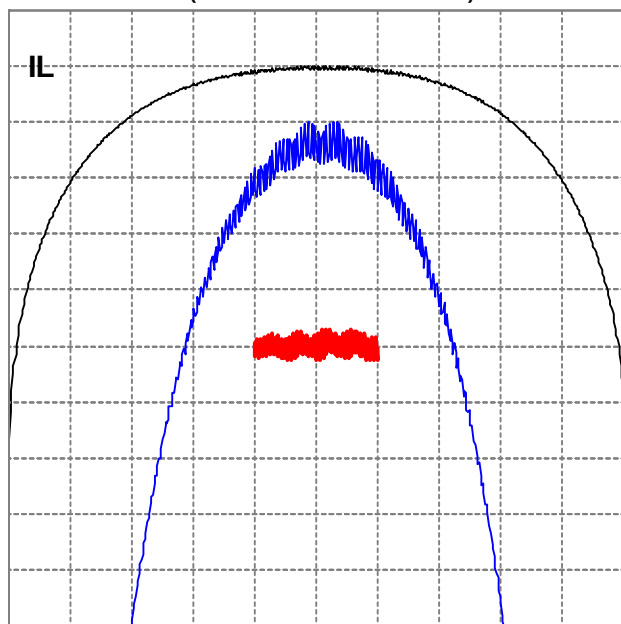
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		166.4	
Bandwidth (B)	MHz		10	
Delay (T0)	μsec	3.18	3.198	3.2
Insertion Loss (IL)	dB		14.5	15.5
Amplitude Ripple	dB p-p		1.2	1.5
Phase Ripple	deg p-p		5.8	8
Spurious for t-T0 >.9T0	dB		-31	-30
Substrate Material	X112Y-LT			

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 $dF0=-x*F0$, $dT0=x*T0$, where $x=18E-6*(\text{temperature}-22C)$

Typical Performance

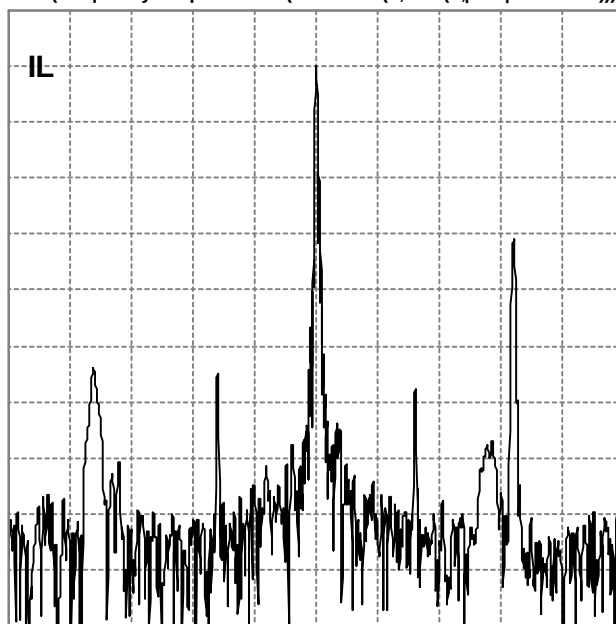
Frequency Response
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 2.700 MHz/div

Impulse Response

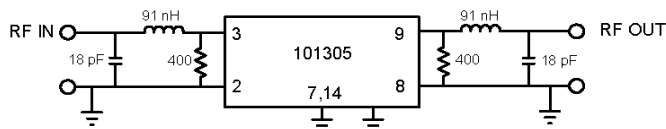
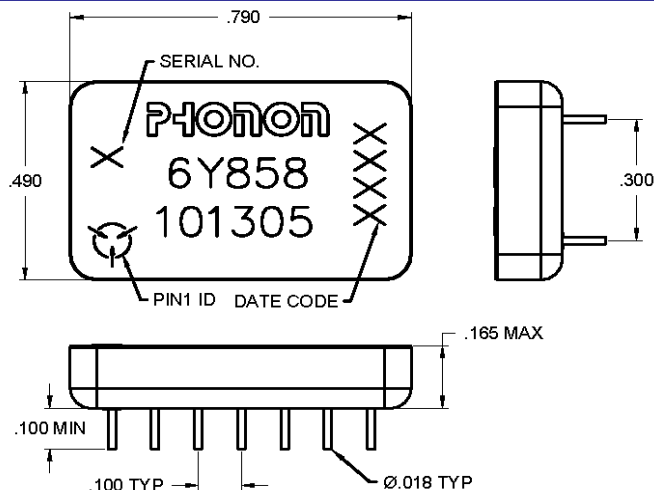
FFT(Frequency Response*Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*2.0/16-1.0))))^2



10 dB/div, 2.000 us/div

Package Outline

Matching



Matched S-parameters available at www.phonon.com