

**Specifications**

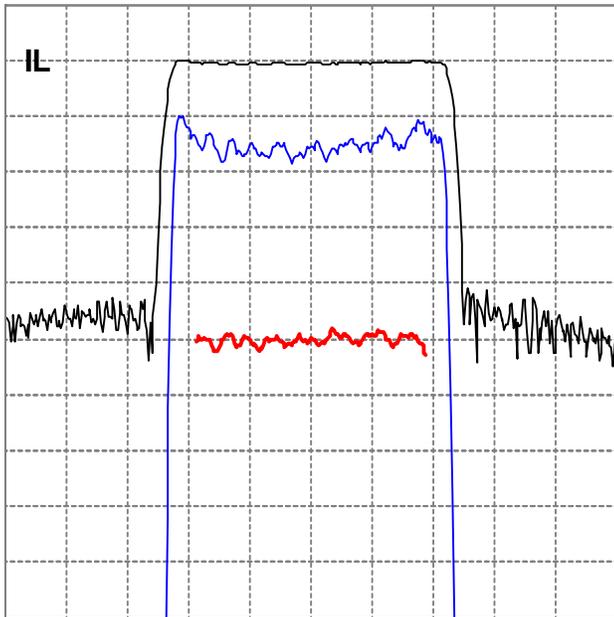
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		160	
Bandwidth (B)	MHz		25	
-3 dB Bandwidth (B3)	MHz	27	27.1	
-40 db Bandwidth (B40)	MHz		29.9	30.1
Delay (T0)	μsec	0.915	0.92	0.925
Insertion Loss (IL)	dB		23.2	24.5
Amplitude Ripple	dB p-p		0.6	1.2
Phase Ripple	deg p-p		3.5	6
Rejection	dB	40	42	
Spurious for  t-T0 >.9T0	dB		-44	-40
Substrate Material		YZ-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  $dF0 = -x * F0$ ,  $dT0 = x * T0$ , where  $x = 94E-6 * (\text{temperature} - 22C)$

**Typical Performance**

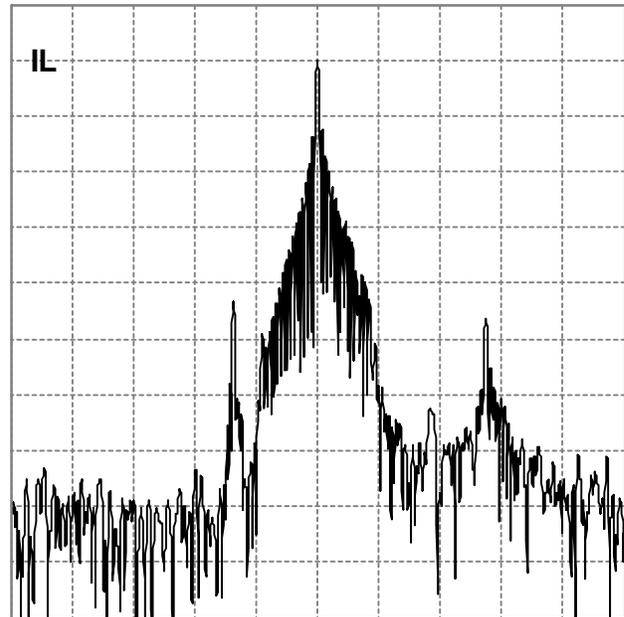
**Frequency Response**  
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 6.000 MHz/div

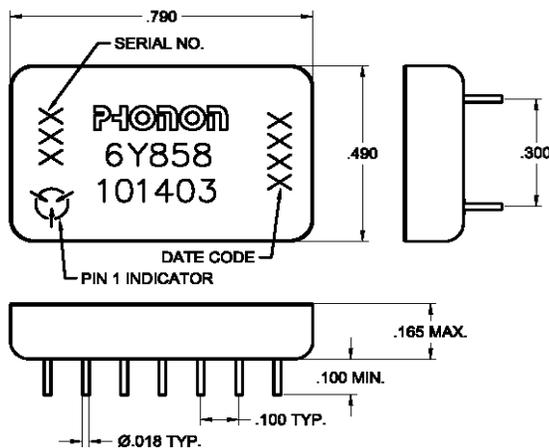
**Impulse Response**

FFT(Frequency Response \* Cos(0.5 \* PI \* MIN(1, MAX(0, |f-F0| \* 2.0/25 - 1.0))) ^ 2)

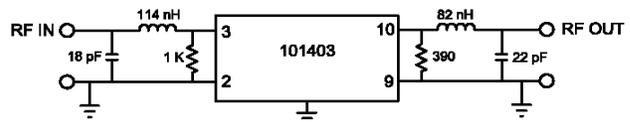


10 dB/div, 0.667 us/div

**Package Outline**



**Matching**



Matched S-parameters available at [www.phonon.com](http://www.phonon.com)