

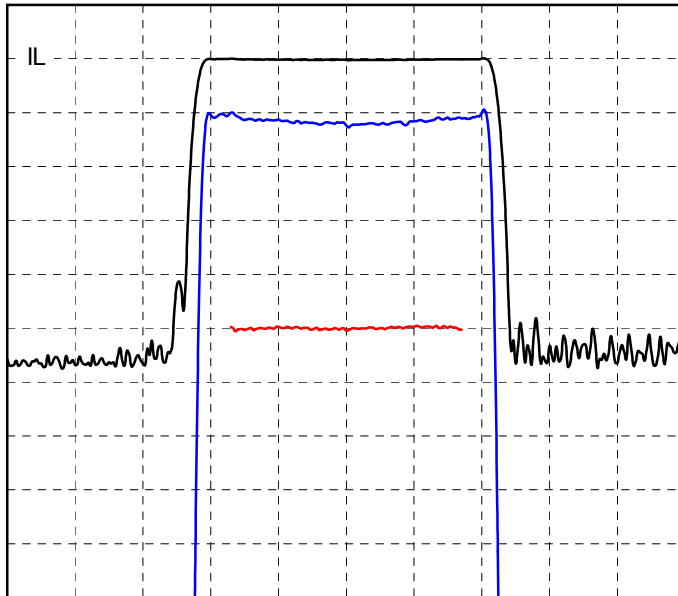
**Specifications**

Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		75	
Bandwidth (B)	MHz		5.7	
-3 dB Bandwidth (B3)	MHz	6.5	6.5	
-40 db Bandwidth (B40)	MHz		7.1	7.2
Delay (T0)	μsec	4.84	4.844	4.88
Insertion Loss (IL)	dB		37.5	39
Amplitude Ripple	dB p-p		0.2	0.5
Phase Ripple	deg p-p		1	2
Rejection	dB	48	52	
Spurious for  t-T0 >.9T0	dB		-56	-48
Substrate Material		38YX-Q		

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

**Typical Performance**

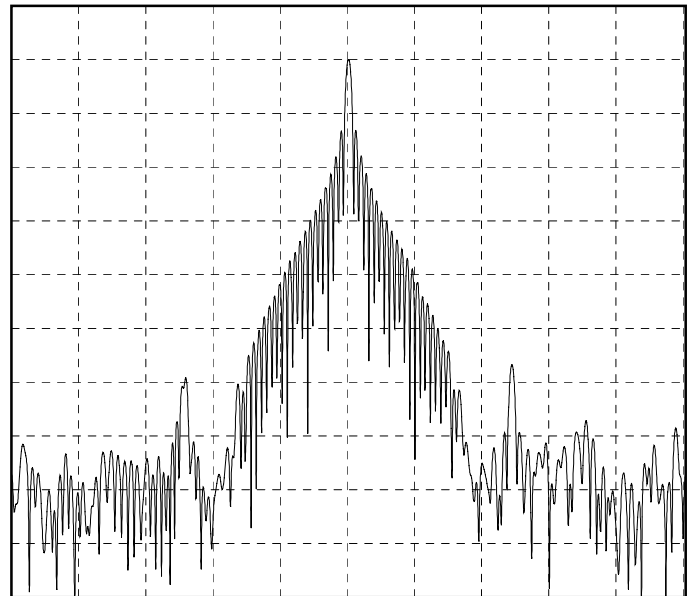
**Frequency Response**  
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 1.5 MHz/div

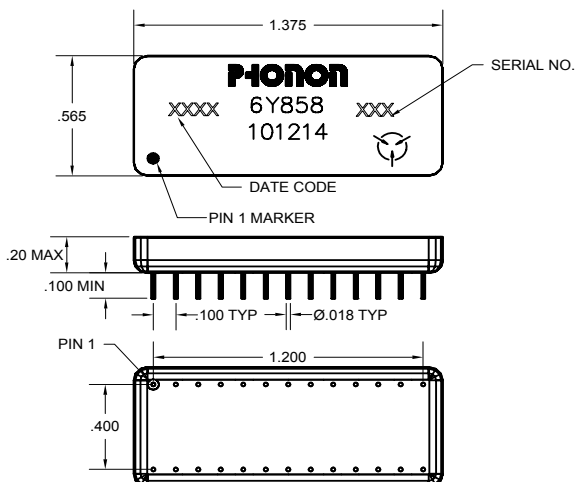
**Impulse Response**

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

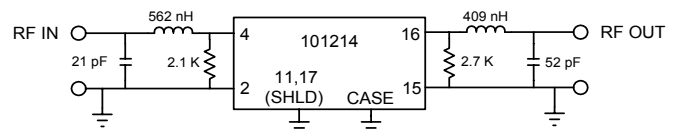


10 dB/div, 2 us/div

**Package Outline**



**Matching**



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