

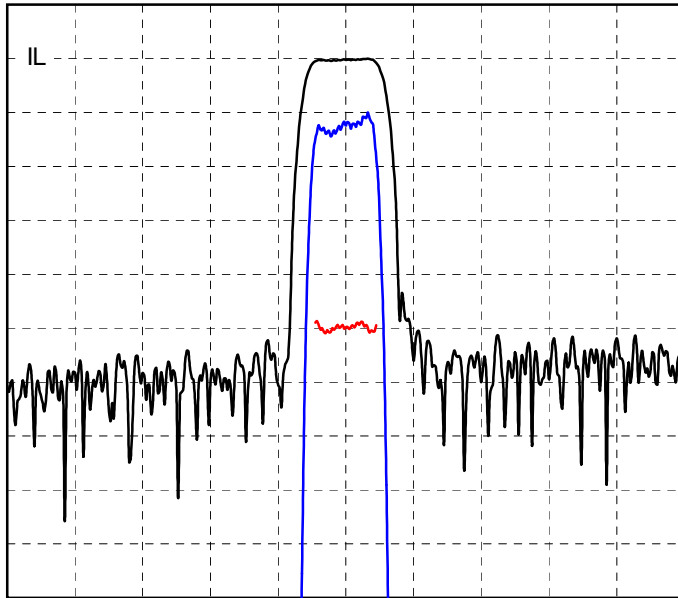
**Specifications**

Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		365	
Bandwidth (B)	MHz		3.1	
-3 dB Bandwidth (B3)	MHz	3.2	3.3	
-40 db Bandwidth (B40)	MHz		4.7	4.8
Delay (T0)	μsec	2.28	2.29	2.3
Insertion Loss (IL)	dB		20.4	24.5
Amplitude Ripple	dB p-p		0.4	1
Phase Ripple	deg p-p		3.2	7
Rejection	dB	46	51	
Spurious for  t-T0 >.9T0	dB		-46	-40
Substrate Material		36YX-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  $dF0 = -x \cdot F0$ ,  $dT0 = x \cdot T0$ , where  $x = 3E-8 \cdot (\text{temperature} - 22C)^2$

**Typical Performance**

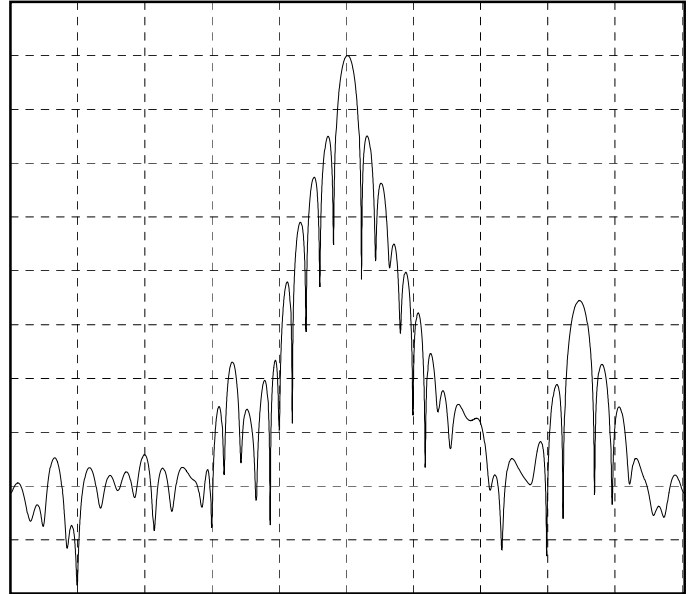
**Frequency Response**  
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 2.99 MHz/div

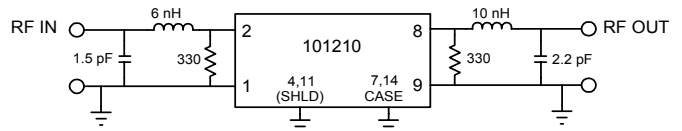
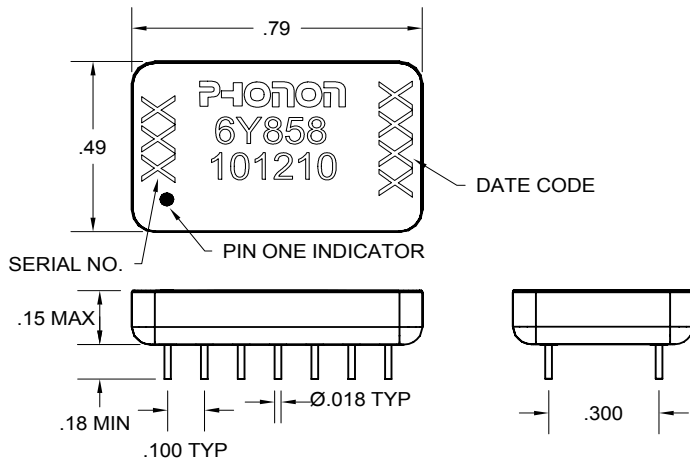
**Impulse Response**

FFT(Frequency Response \* Cos(0.5 \* PI \* MIN(1, MAX(0, |f-F0| \* 2.0 / (3.5 - 1.0))))^2



10 dB/div, 1.337 us/div

**Package Outline      Matching**



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