

Specifications

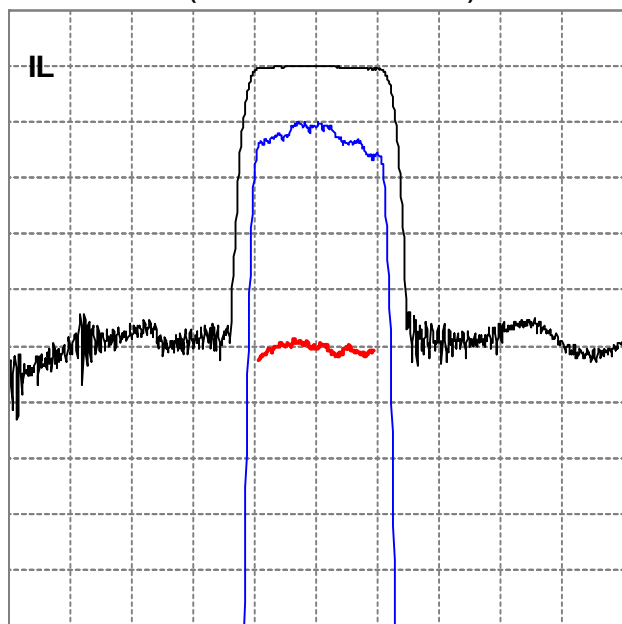
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		500	
Bandwidth (B)	MHz		105	
-3 dB Bandwidth (B3)	MHz	111.5	112.9	
-40 dB Bandwidth (B40)	MHz		141.4	144.5
Delay (T0)	μsec	0.187	0.188	0.189
Insertion Loss (IL)	dB		24.8	25.5
Amplitude Ripple	dB p-p		0.6	1.2
Phase Ripple	deg p-p		3.8	7
Rejection	dB	40	45	
Spurious for $ t-T0 > .9T0$	dB		-47	-40
Substrate Material	YZ-LN			

Notes:

1. Center Frequency (F0) and Bandwidth (B) are defined, not measured.
2. Insertion Loss is the minimum loss for $|f-F0| < .5B$
3. Ripple spec applies to the $|f-F0| < .4B$, and is doubled for $.4B < |f-F0| < .5B$
4. Rejection spec applies to $(B40 \text{ Spec} - B/2) < |f-F0| < F0/2$
5. Specifications are at 22C only. Unit will operate undamaged from -54C to 125C with shifts $dF0 = -x \cdot F0$, $dT0 = x \cdot T0$, where $x = 94E-6 \cdot (\text{temperature} - 22C)$

Typical Performance

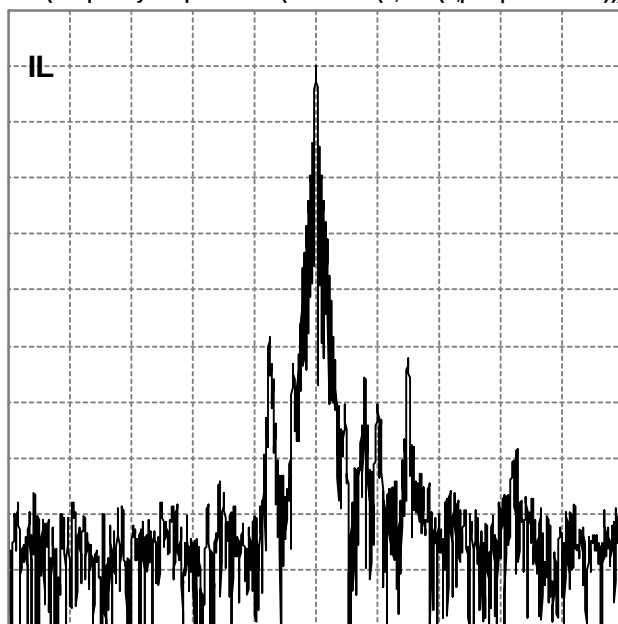
Frequency Response
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 50.000 MHz/div

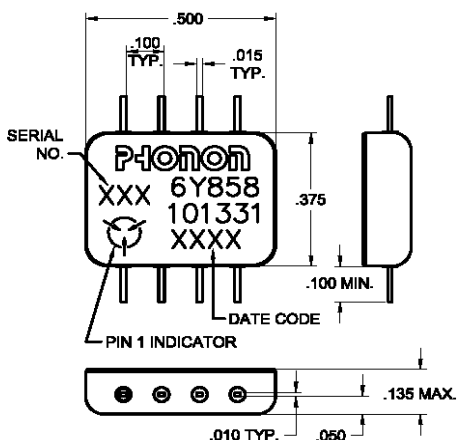
Impulse Response

FFT(Frequency Response * Cos(0.5 * PI * MIN(1, MAX(0, (f-F0)^2.0 / (105-1.0))))^2)

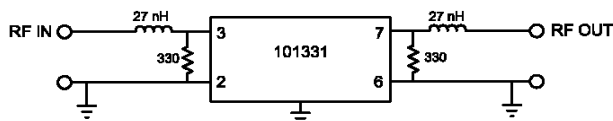


10 dB/div, 0.250 us/div

Package Outline



Matching



Matched S-parameters available at www.phonon.com