

Specifications

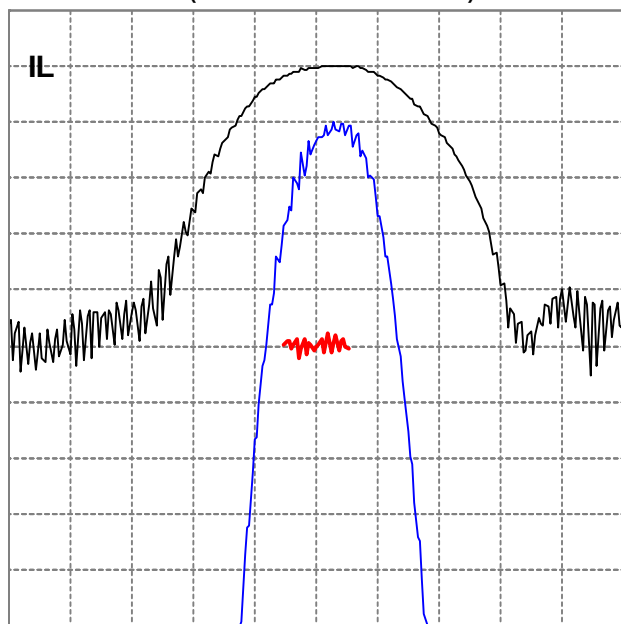
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		1575	
Bandwidth (B)	MHz		30	
Delay (T0)	μsec	0.31	0.32	0.33
Insertion Loss (IL)	dB		24.7	30.5
Amplitude Ripple	dB p-p		1.5	2
Phase Ripple	deg p-p		10.4	20
Spurious for $ t-T0 > .9T0$	dB		-39	-31
Substrate Material	128YX-LN			

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 $|f-F0| < .4B$, and is doubled for $.4B < |f-F0| < .5B$
- Specifications are at 22C only. Unit will operate undamaged from -54C to 125C with shifts $dF0 = -x \cdot F0$, $dT0 = x \cdot T0$, where $x = 75E-6 \cdot (\text{temperature} - 22C)$

Typical Performance

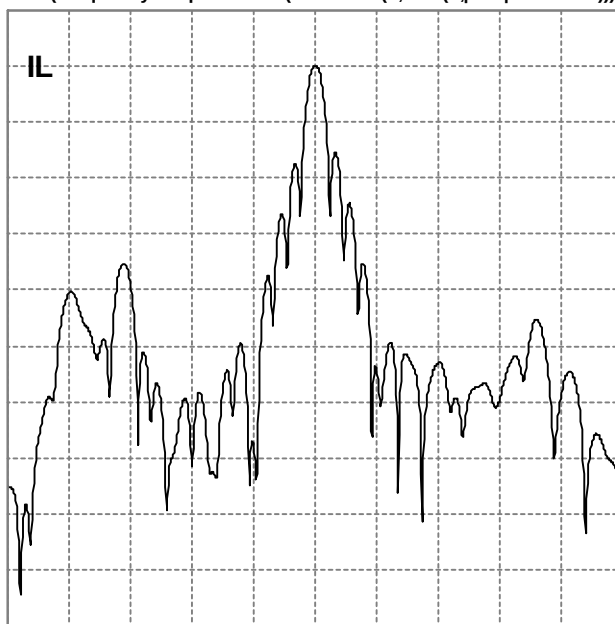
Frequency Response
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 25,000 MHz/div

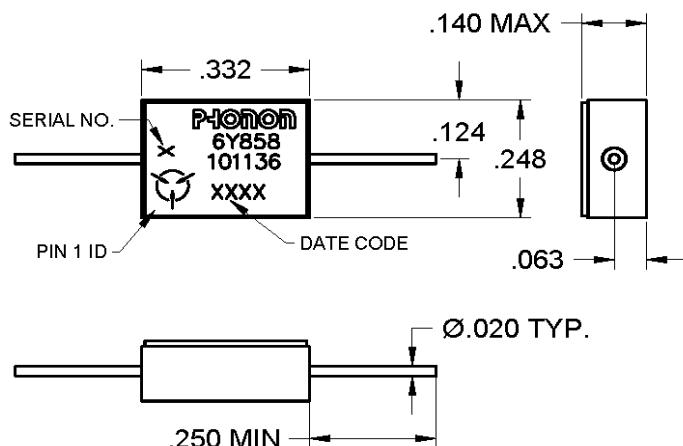
Impulse Response

$FFT(\text{Frequency Response} \cdot \cos(0.5 \cdot \pi \cdot \min(1, \max(0, |f-F0| \cdot 2.0/30 - 1.0)))^2)$

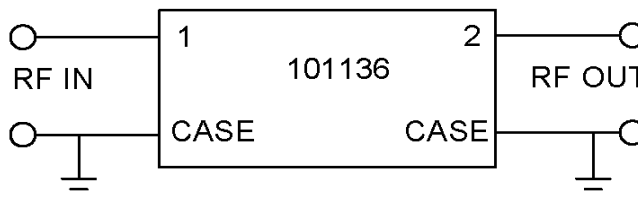


10 dB/div, 0.100 us/div

Package Outline



Matching



Matched S-parameters available at www.phonon.com