

Specifications

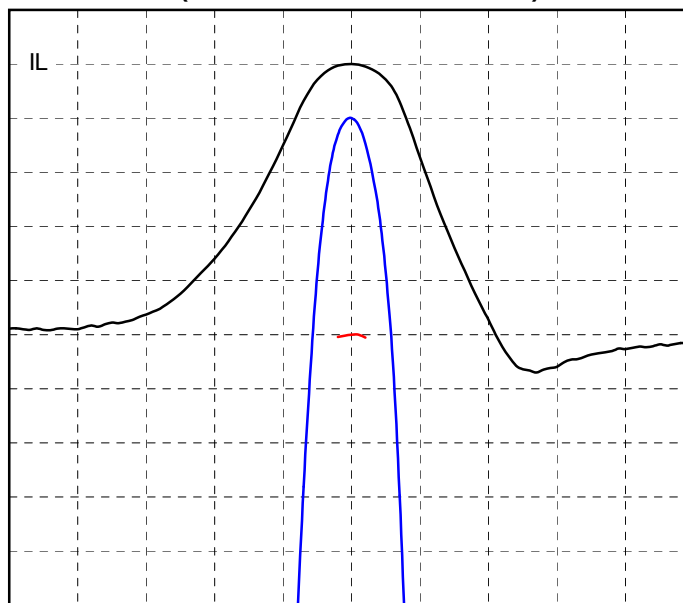
Parameter	Unit	Min	Typical	Max
Center Frequency (F0)	MHz		500	
Bandwidth (B)	MHz		0.006	
-3 dB Bandwidth (B3)	MHz	0.2	0.3	
Stopband Bandwidth	MHz		1.2	1.3
Delay (T0)	μsec	2.04	2.282	2.52
Insertion Loss (IL)	dB		5	6.8
Amplitude Ripple	dB p-p		0.1	0.5
Phase Ripple	deg p-p		0.1	0.5
Rejection	dB	42	47	
Substrate Material	30YX-Q			

Notes:

1. Center Frequency (F0) and Bandwidth (B) are defined, not measured.
2. Insertion Loss is the minimum loss for $|f-F_0| < .5B$
3. Ripple spec applies to the $|f-F_0| < .4B$, and is doubled for $.4B < |f-F_0| < .5B$
4. Rejection spec applies to $(B/40 - B/2) < |f-F_0| < F_0/2$
5. Specifications are at 22°C only. Unit will operate undamaged from -54°C to 125°C with shifts $dF_0 = -x \cdot F_0$, $dT_0 = x \cdot T_0$, where $x = 3E-8 \cdot (\text{temperature} - 22)^\circ\text{C}^2$

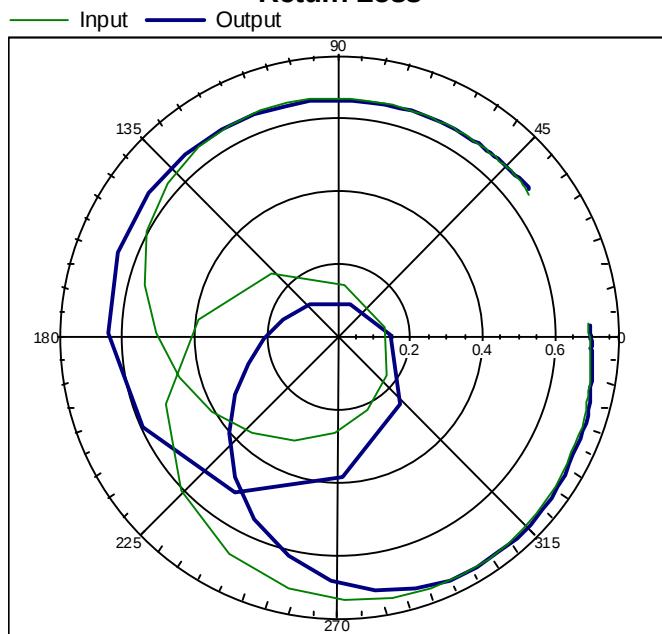
Typical Performance

Frequency Response
(Best Fit Linear Phase Removed)

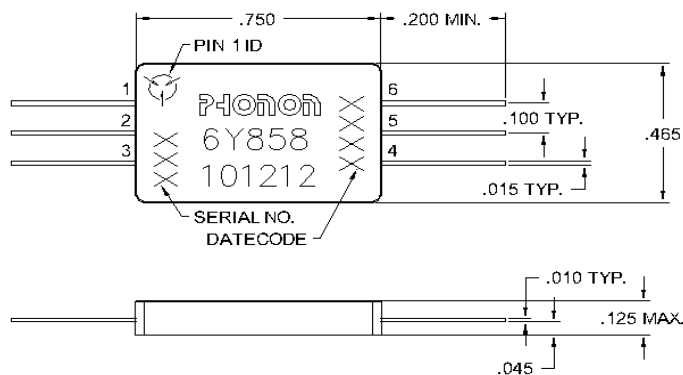


10 dB/div, 1 dB/div, 10 deg/div, 0.3 MHz/div

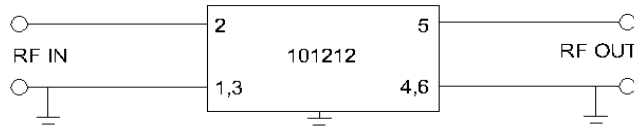
Return Loss



Package Outline



Matching



Matched S-parameters available at www.phonon.com