101525C

LR187.5-35-1.05 187.5 MHz Delay Line 35 MHz Bandwidth

Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F_0		187.5		MHz
Bandwidth	B		35		MHz
Delay	T_0	1.04	1.05	1.06	µsec
Insertion Loss	IL		29.3	30	dB
Amplitude Ripple			0.2	0.5	dB_{P-P}
Phase Ripple			1.5	2	deg_{P-P}
Spurious for $\|t - T_0\| > .9T_0$			–61	–60	dB
Substrate Material	YZ-LN				

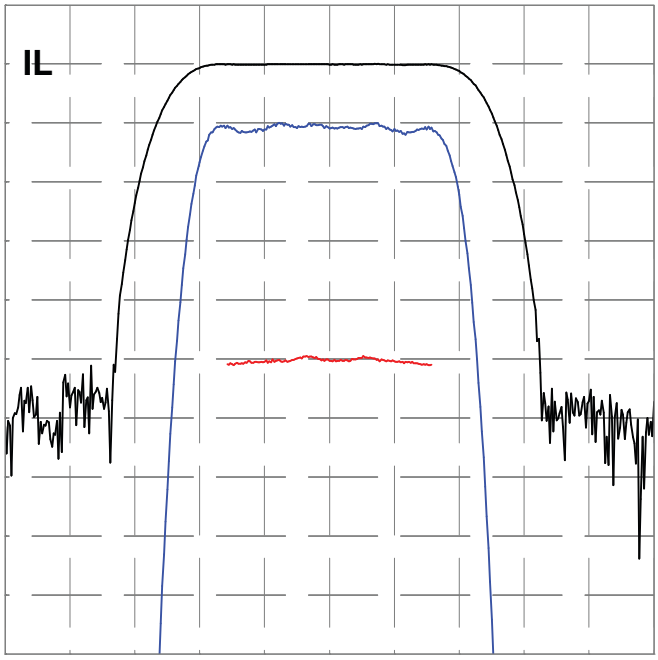
Notes

1. Center Frequency (F_0) 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. Specifications are at 22 °C only. Unit will operate undamaged from –54 °C to 125 °C with shifts $dF_0 = -x * F_0$, $dT_0 = x * T_0$, where x = 94E-6 * (temperature – 22 °C)

Typical Performance

Frequency Response

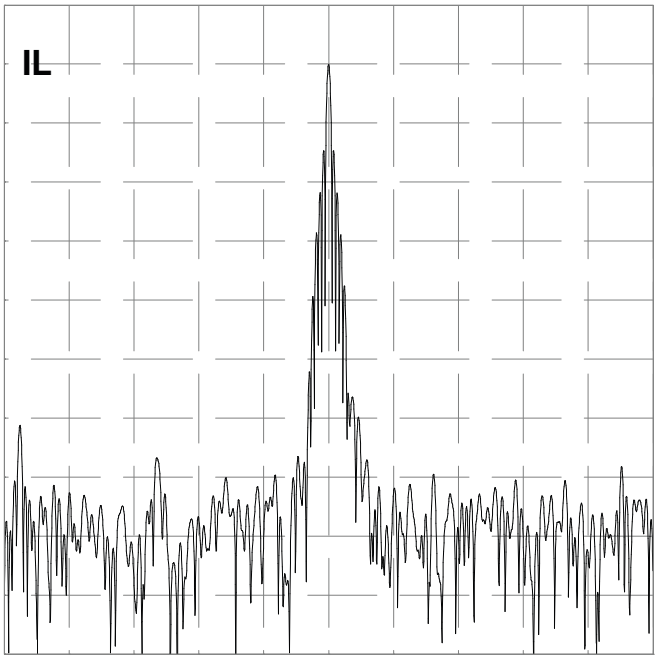
(Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 10.000 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, 0.400 us/div

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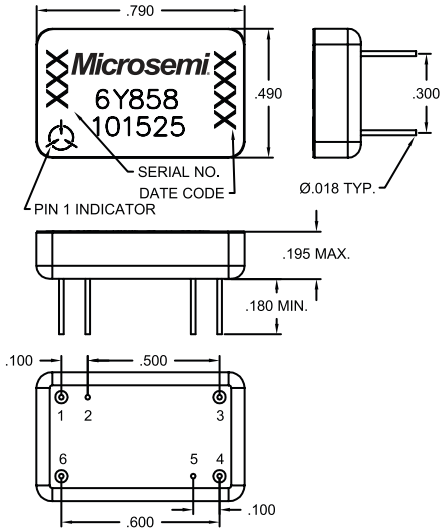
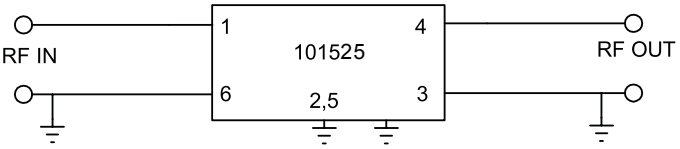
Package Outline



Matching



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