

101112C

LR100-30-5.12 100 MHz Delay Line 30 MHz Bandwidth

Specifications

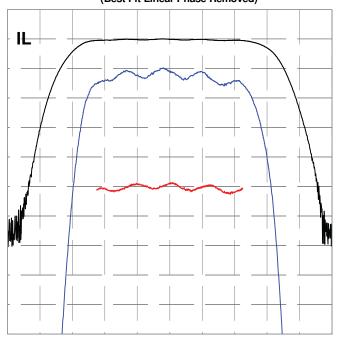
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	Fo		100		MHz
Bandwidth	В		30		MHz
Delay	T ₀	5.08	5.103	5.12	µsec
Insertion Loss	IL		25.1	26	dB
Amplitude Ripple			0.6	0.8	dB _{P-P}
Phase Ripple			4.3	6	deg _{P-P}
Spurious for $ t-T_0 > .9T_0$			-59	-58	dB
Substrate Material	YZ-LN				

Notes

- 1. Center Frequency (F₀) and Bandwidth (B) are defined, not measured.
- 2. Insertion Loss is the minimum loss for $|f F_0| < .5B$
- 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)

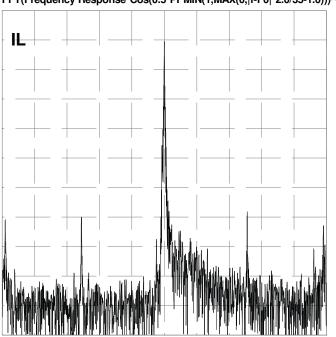
Typical Performance

Frequency Response (Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 6.000 MHz/div

Impulse Response FFT(Frequency Response*Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*2.0/35-1.0)))^2)



10 dB/div, 2.000 us/div

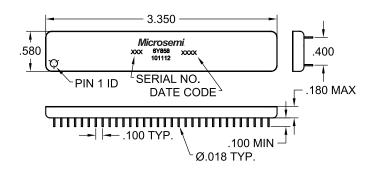


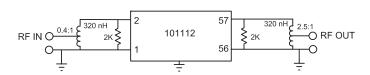
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Package Outline

Matching







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