

# 101511C

## LR60-12-133.33 60 MHz Delay Line 12 MHz Bandwidth

# **Specifications**

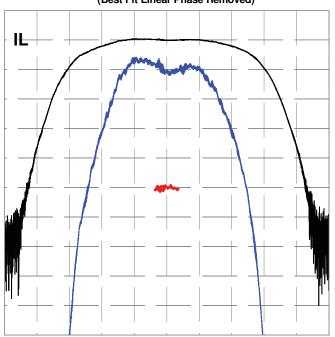
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	Fo		60		MHz
Bandwidth	В		12		MHz
Delay	T <sub>0</sub>	133	133.344	133.5	µsec
Insertion Loss	IL		31.6	34	dB
Amplitude Ripple			2.7	3	dB <sub>P-P</sub>
Phase Ripple			14.1	25	deg <sub>P-P</sub>
Spurious for $ t - T_0  > .9T_0$			-54	-35	dB
Substrate Material	YZ-LN				

#### **Notes**

- 1. Center Frequency (F<sub>0</sub>) 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)

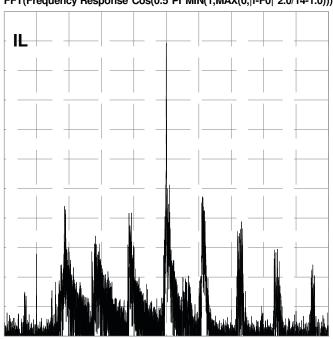
## **Typical Performance**

# Frequency Response (Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 2.400 MHz/div

# Impulse Response FFT(Frequency Response\*Cos(0.5\*PI\*MIN(1,MAX(0,|f-F0|\*2.0/14-1.0)))^2)



10 dB/div, 33.333 us/div



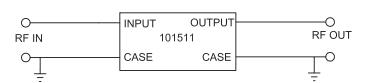
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## **Package Outline**

#### 2X 5.200 4X .300 OUTPUT Microsemi. 6Y858 .950 SMA FEMALE 101511 XXX XXXX 4X R.063 SERIAL NO. DATE CODE 4X .210 --4X .126 -⊢ 4X .200 5.500

### Matching





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