

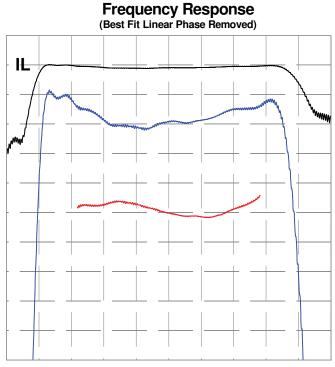
## **Specifications**

Parameter	Symbol	Min	Typical	Max	Unit	
Center Frequency	Fo		1000		MHz	
Bandwidth	В		550		MHz	
Delay	To	1.79	1.797	1.8	µsec	
Insertion Loss	IL		35.4	39	dB	
Amplitude Ripple			0.8	1.6	dB <sub>P-P</sub>	
Phase Ripple			6.5	14	deg <sub>P-P</sub>	
Spurious for $ t - T_0  > .9T_0$			-50	-48	dB	
Substrate Material	YZ-LN					

### Notes

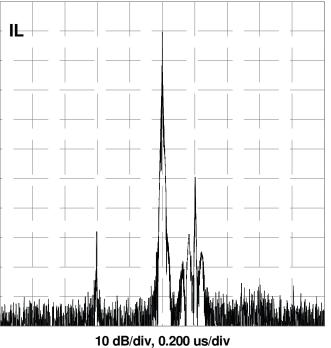
- 1. Center Frequency (F<sub>0</sub>) and Bandwidth (B) are defined, not measured.
- 2. Insertion Loss is the minimum loss for  $|f F_0| < .5B$
- 3. Ripple spec applies to the  $|f F_0| < .4B$ , and is doubled for  $.4B < |f F_0| < .5B$
- 4. Specifications are at 22 °C only. Unit will operate undamaged 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**



10 dB/div, 1 dB/div, 10 deg/div, 80.000 MHz/div

Impulse Response FFT(Frequency Response\*Cos(0.5\*PI\*MIN(1,MAX(0,|f-F0|\*4.4/B-2.2)))^2)

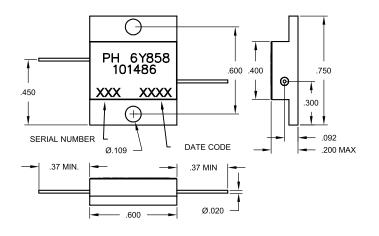




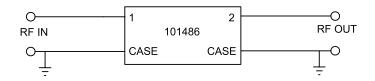
# 101486C

LR1000-550-1.8 1000 MHz Delay Line 550 MHz Bandwidth

## Package Outline



## Matching





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