

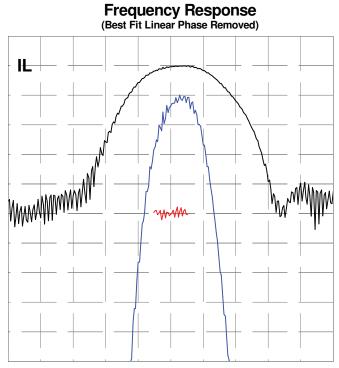
## **Specifications**

Parameter	Symbol	Min	Typical	Max	Unit	
Center Frequency	Fo		1575		MHz	
Bandwidth	В		30		MHz	
Delay	To	0.31	0.32	0.33	µsec	
Insertion Loss	IL		24.7	30.5	dB	
Amplitude Ripple			1.5	2	dB <sub>P-P</sub>	
Phase Ripple			10.4	20	deg <sub>P-P</sub>	
Spurious for $ t - T_0  > .9T_0$			-39	-31	dB	
Substrate Material	128YX-LN					

### Notes

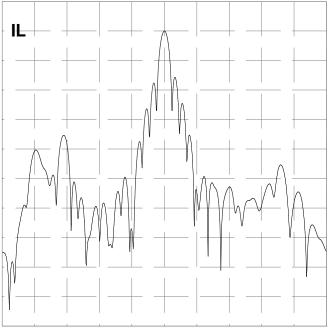
- 1. Center Frequency (F<sub>0</sub>) and Bandwidth (B) are defined, not measured.
- 2. Insertion Loss is the minimum loss for  $|f F_0| < .5B$
- 3. Ripple spec applies to the  $|f F_0| < .4B$ , and is doubled for  $.4B < |f F_0| < .5B$
- 4. Specifications are at 22 °C only. Unit will operate undamaged from -54 °C to 125 °C with shifts dF<sub>0</sub> =  $-x^*$  F<sub>0</sub>, dT<sub>0</sub> =  $x^*$  T<sub>0</sub>, where  $x = 75E-6^*$  (temperature -22 °C)

## **Typical Performance**



10 dB/div, 1 dB/div, 10 deg/div, 25.000 MHz/div

Impulse Response FFT(Frequency Response\*Cos(0.5\*PI\*MIN(1,MAX(0,|f-F0|\*2.0/30-1.0)))^2)

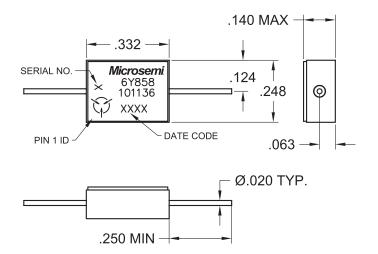


10 dB/div, 0.100 us/div

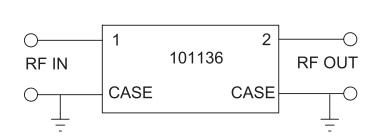


# **101136C** LR1575-30-.314 1575 MHz Delay Line 30 MHz Bandwidth

# Package Outline



## Matching





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