

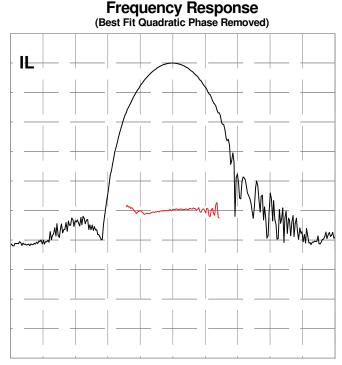
### **Specifications**

Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F <sub>0</sub>		36		MHz
Bandwidth	В		3.25		MHz
Dispersion	Т		12		µsec
Delay	To	8.64	8.703	8.76	µsec
Insertion Loss	IL		29.7	30	dB
Slope	S <sub>0</sub>	3.68	3.7	3.72	µs/MHz
Pulse Width at -3 dB			0.377	0.378	µsec
Sidelobes for $ t - T_0  < T$			-44.9	-36	dB
Time Spurious for $ t - T_0  > T$			-62	-56	dB
Substrate Material	STQ				

#### Notes

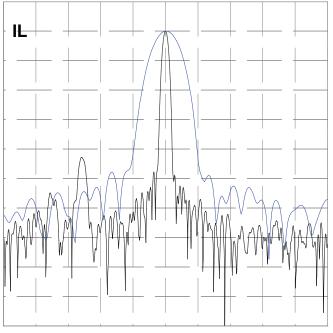
- 1. Center Frequency (F<sub>0</sub>) and Bandwidth (B) are defined, not measured. Dispersion (T) is defined as  $|B * S_0|$ .
- 2. Insertion Loss is the minimum loss for  $|f F_0| < .5B$
- 3. Delay and Slope determined by best fit quadratic pulse in  $|f F_0| < .5B$ .
- 4. Specifications are at 22 °C 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> + S<sub>0</sub> \* F<sub>0</sub>), dS<sub>0</sub> = x \* 2 \* S<sub>0</sub>, where x = 3E-8 \* (temperature – 22 °C)<sup>2</sup>

## **Typical Performance**



10 dB/div, 10 deg/div, 1.006 MHz/div

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



10 dB/div, 2.844 us/div, 0.615 us/div

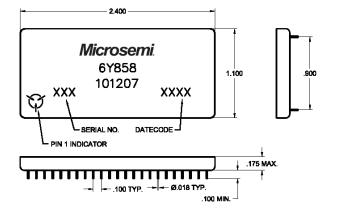


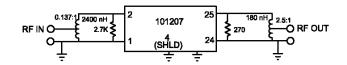
# 101207C

ID36-3.25-12W+ 36 MHz Dispersive Delay Line 3.25 MHz Bandwidth

### **Package Outline**









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