

101283C

ID36-2.5-9W+ 36 MHz Dispersive Delay Line 2.5 MHz Bandwidth

Specifications

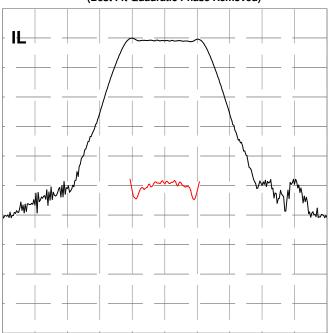
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		36		MHz
Bandwidth	В		2.5		MHz
Dispersion	Т		9		µsec
Delay	T ₀	7.96	8.047	8.16	µsec
Insertion Loss	IL		32.1	33	dB
Slope	S ₀	-3.66	-3.64	-3.6	µs/MHz
Pulse Width at -3 dB			0.295	0.296	µsec
Sidelobes for $ t - T_0 < T$			-13.6	-12.5	dB
Time Spurious for $ t - T_0 > T$			-58	-50	dB
Substrate Material	STQ				

Notes

- 1. Center Frequency (F_0) 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 $dF_0 = -x * F_0$, $dT_0 = x * (T_0 + S_0 * F_0)$, $dS_0 = x * 2 * S_0$, where x = 3E-8 * (temperature 22 °C)

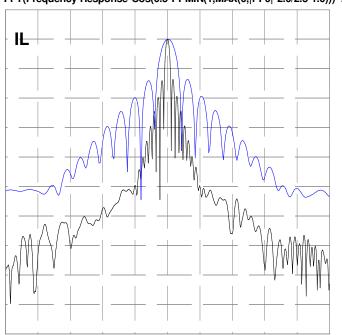
Typical Performance

Frequency Response (Best Fit Quadratic Phase Removed)



10 dB/div, 10 deg/div, 1.050 MHz/div

Compressed Pulse Response FFT(Frequency Response*Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*2.0/2.5-1.0)))^2)



10 dB/div, 2.857 us/div, 0.800 us/div



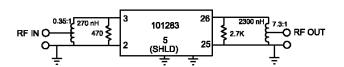
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Package Outline

2.400 Microsemi. 6Y858 1.100 101283 SERIAL NO. DATE CODE PIN 1 INDICATOR .175 MAX. .100 MIN. .100 TYP. --- Ø.018 TYP.

Matching





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