

101284C

ID606.25-337.5-2.048U-606.25 MHz Dispersive Delay Line 337.5 MHz Bandwidth

Specifications

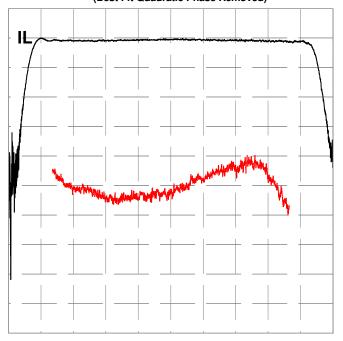
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		606.25		MHz
Bandwidth	В		337.5		MHz
Dispersion	Т		2.048		µsec
Delay	T ₀	3.66	3.679	3.7	µsec
Insertion Loss	IL		35.7	37	dB
Slope	S ₀	-0.0061	-0.0061	-0.006	µs/MHz
Pulse Width at -3 dB			0.0025	0.0025	µsec
Sidelobes for $ t - T_0 < T$			-12.4	-10.5	dB
Time Spurious for $ t - T_0 > T$	_		-70	-65	dB
Substrate Material	YZ-LN				

Notes

- 1. Center Frequency (F₀) and Bandwidth (B) are defined, not measured. Dispersion (T) is defined as |B*S₀|.
- 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 = 94E-6 * (temperature 22 °C)

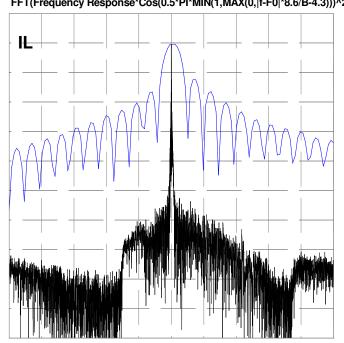
Typical Performance

Frequency Response (Best Fit Quadratic Phase Removed)



10 dB/div, 10 deg/div, 41.600 MHz/div

Compressed Pulse Response FFT(Frequency Response*Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*8.6/B-4.3)))^2)



10 dB/div, 0.769 us/div, 0.006 us/div



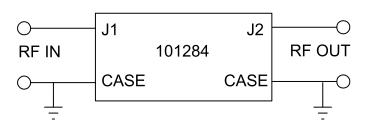
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Package Outline

(.150 Typ.) -(2X .800) -(.100 Typ.) R.07 MAX 8X R.051 2X .050 Ð 2X .550) Microsemi 6Y858 1.100 0 (2X .900) .700 2X .480 101284 SERNOXXXX~ XXXX Œ \oplus (2X .100) 4X .208 4X .300 2X .500 .210 MAX 1.338 1.095

Matching





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