

100697C

ID60-6-12.5U+ 60 MHz Dispersive Delay Line 6 MHz Bandwidth

Specifications

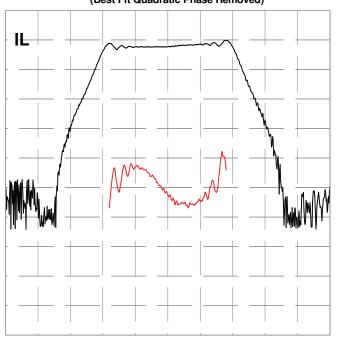
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		60		MHz
Bandwidth	В		6		MHz
Dispersion	Т		12.5		µsec
Delay	T ₀	8.28	8.351	8.4	µsec
Insertion Loss	IL		30.3	32	dB
Slope	S ₀	2.06	2.08	2.1	µs/MHz
Pulse Width at -3 dB			0.135	0.143	µsec
Sidelobes for $ t - T_0 < T$			-10.9	-10	dB
Time Spurious for $ t - T_0 > T$			-59	-54	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 $x = 3E-6 * (temperature 22 °C)^2$

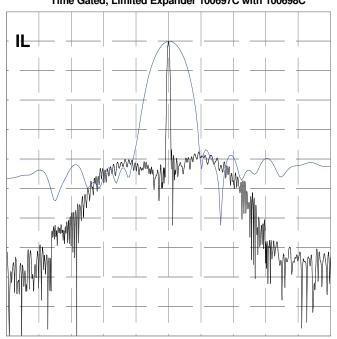
Typical Performance

Frequency Response (Best Fit Quadratic Phase Removed)



10 dB/div, 10 deg/div, 1.500 MHz/div

Compressed Pulse Response Time Gated, Limited Expander 100697C with 100698C



10 dB/div, 4.000 us/div, 0.333 us/div



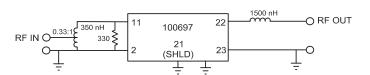
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Package Outline

- 2.40 -Microsemi. XXX .900 1.10 6Y858 XXX 100697 SERIAL NO. -DATE CODE PIN1 ID .17 MAX. Ø.018 TYP - .100 TYP .100 MIN -

Matching





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