

## 100695C

## ID60-6-3.125U+ 60 MHz Dispersive Delay Line 6 MHz Bandwidth

## **Specifications**

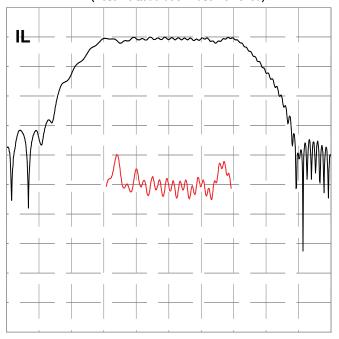
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F <sub>0</sub>		60		MHz
Bandwidth	В		6		MHz
Dispersion	Т		3.125		µsec
Delay	T <sub>0</sub>	3.48	3.495	3.52	µsec
Insertion Loss	IL		30.1	31	dB
Slope	S <sub>0</sub>	0.515	0.525	0.526	µs/MHz
Pulse Width at -3 dB			0.12	0.123	µsec
Sidelobes for $ t - T_0  < T$			-14.4	-14	dB
Time Spurious for $ t - T_0  > T$			-72	-70	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<sub>0</sub>|.
- 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  $x = 3E-8 * (temperature 22 °C)^2$

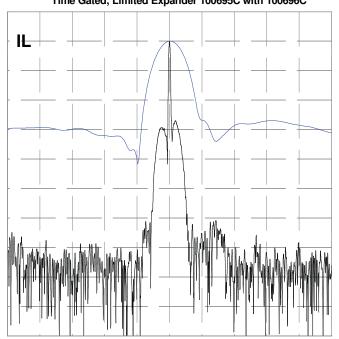
## **Typical Performance**

# Frequency Response (Best Fit Quadratic Phase Removed)



10 dB/div, 10 deg/div, 1.400 MHz/div

# Compressed Pulse Response Time Gated, Limited Expander 100695C with 100696C



10 dB/div, 5.714 us/div, 0.333 us/div



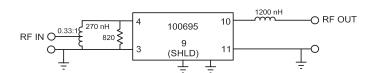
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## **Package Outline**

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## Matching





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