

101285C ID675-168.75-1.024U-675 MHz Dispersive Delay Line 168.8 MHz Bandwidth

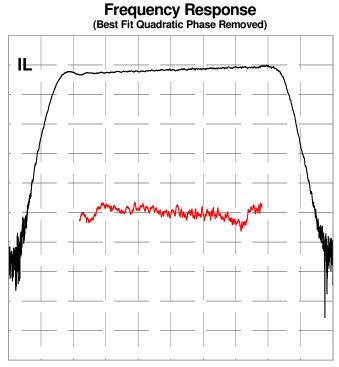
Specifications

Parameter	Symbol	Min	Typical	Max	Unit	
Center Frequency	Fo		675		MHz	
Bandwidth	В		168.75		MHz	
Dispersion	Т		1.024		µsec	
Delay	T ₀	4.08	4.095	4.12	µsec	
Insertion Loss	IL		22	23	dB	
Slope	S ₀	-0.0061	-0.0061	-0.006	µs/MHz	
Pulse Width at -3 dB			0.0047	0.0047	µsec	
Sidelobes for $ t - T_0 < T$			-13.1	-11.5	dB	
Time Spurious for $ t - T_0 > T$			-67	-60	dB	
Substrate Material			YZ-LN			

Notes

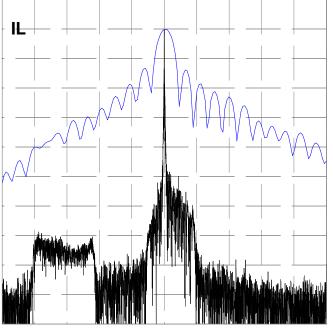
- 1. Center Frequency (F_0) and Bandwidth (B) are defined, not measured. Dispersion (T) is defined as $|B^*S_0|$.
- 2. Insertion Loss is the minimum loss for $|f F_0| < .5B$
- 3. Delay and Slope determined by best fit quadratic pulse in $|f F_0| < .5B$.
- 4. Specifications are at 22 °C only. Unit will operate undamaged from -54 °C to 125 °C with shifts dF₀ = -x * F₀, dT₀ = x * (T₀ + S₀ * F₀), dS₀ = x * 2 * S₀, where x = 94E-6 * (temperature – 22 °C)

Typical Performance



10 dB/div, 10 deg/div, 27.000 MHz/div





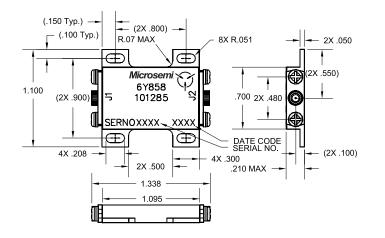
10 dB/div, 1.185 us/div, 0.012 us/div



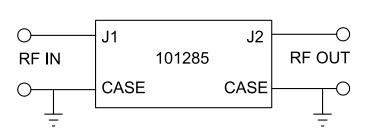
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Package Outline



Matching





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MSCC-0347-DS-01026-2.00-0717