

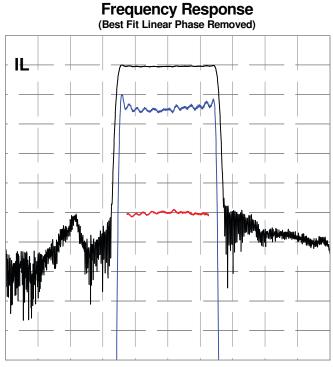
Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	Fo		500		MHz
Bandwidth	В		90		MHz
-3 dB Bandwidth	B ₃	95.9	96.7		MHz
–40 dB Bandwidth	B ₄₀		108.1	111	MHz
Delay	To	0.735	0.741	0.745	µsec
Insertion Loss	IL		24.3	26	dB
Amplitude Ripple			0.4	1	dB _{P-P}
Phase Ripple			3	5	deg _{P-P}
Rejection		42	51		dB
Spurious for $ t - T_0 > .9T_0$			-49	-42	dB
Substrate Material	YZ-LN				

Notes

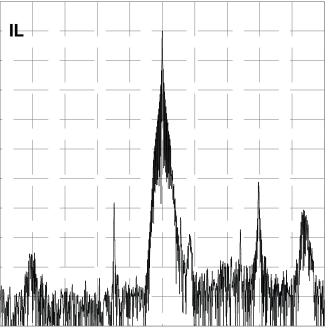
- 1. Center Frequency (F₀) and Bandwidth (B) are defined, not measured.
- 2. Insertion Loss is the minimum loss for $|f F_0| < .5B$
- 3. Ripple spec applies to the $|f F_0| < .4B$, and is doubled for $.4B < |f F_0| < .5B$
- 4. Rejection spec applies to $(B_{40} \text{ Spec} B/2) < |f F_0| < F_0/2$
- 5. Specifications are at 22 °C only. Unit will operate undamaged from -54 °C to 125 °C with shifts dF₀ = $-x^*$ F₀, dT₀ = x^* T₀, where $x = 94E-6^*$ (temperature -22 °C)

Typical Performance



10 dB/div, 1 dB/div, 10 deg/div, 32.000 MHz/div

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

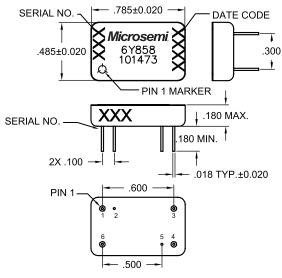


10 dB/div, 0.500 us/div

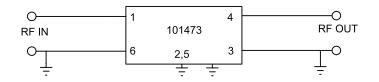


101473C FB500-90 500 MHz Bandpass Filter 90 MHz Bandwidth

Package Outline



Matching





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