

101439C

FB600-348 600 MHz Bandpass Filter 348 MHz Bandwidth

Specifications

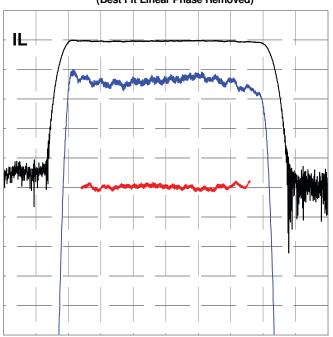
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		600		MHz
Bandwidth	В		348		MHz
-3 dB Bandwidth	В3	372	375.7		MHz
-40 dB Bandwidth	B ₄₀		439.7	442	MHz
Delay	T ₀	0.65	0.655	0.66	µsec
Insertion Loss	IL		38.9	40	dB
Amplitude Ripple			0.8	1.4	dB _{P-P}
Phase Ripple			4	6	deg _{P-P}
Rejection		40	41		dB
Spurious for $ t - T_0 > .9T_0$			-40	-39	dB
Substrate Material	128YX-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 $dF_0 = -x * F_0$, $dT_0 = x * T_0$, where x = 75E-6 * (temperature 22 °C)

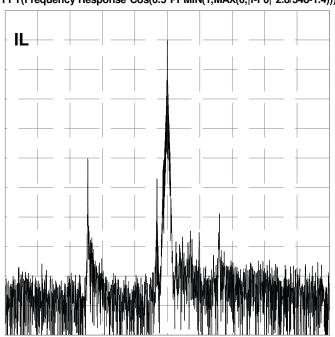
Typical Performance

Frequency Response (Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 60.000 MHz/div

Impulse Response FFT(Frequency Response*Cos(0.5*PI*MIN(1,MAX(0,|f-F0|*2.8/348-1.4)))^2)



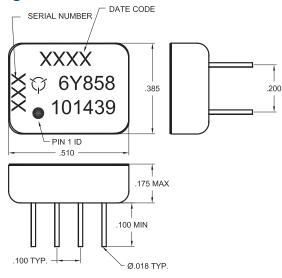
10 dB/div, 0.267 us/div



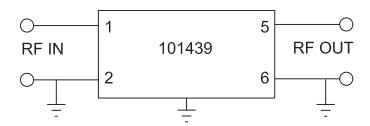
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Package Outline



Matching





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