

101306C

FB70-1.6667 70 MHz Bandpass Filter 1.667 MHz Bandwidth

Specifications

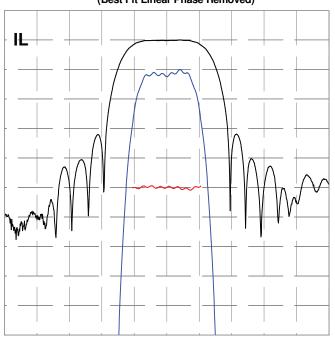
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		70		MHz
Bandwidth	В		1.6667		MHz
-3 dB Bandwidth	В3	1.6	1.7		MHz
-40 dB Bandwidth	B ₄₀		2.7	2.8	MHz
Delay	T ₀	2.68	2.687	2.7	µsec
Insertion Loss	IL		21.5	22	dB
Amplitude Ripple			1.1	1.5	dB _{P-P}
Phase Ripple			1.5	2	deg _{P-P}
Rejection		39	42		dB
Spurious for $ t - T_0 > .9T_0$			-46	-44	dB
Substrate Material	STQ				

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 $x = 3E-8 * (temperature 22 °C)^2$

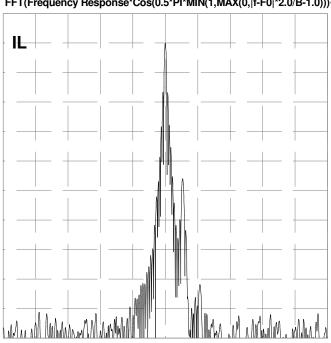
Typical Performance

Frequency Response (Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 0.700 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, 10.000 us/div



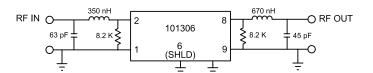
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Package Outline

Microsemi. 6 Y 8 5 8 1 0 1 3 0 6 DATE CODE SERIAL NO. PIN ONE INDICATOR 1.165 MAX. 1.00 TYP. 3.00

Matching





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