

101098C

FB36.775-5.75 5.75 MHz Bandwidth 36.775 MHz Bandpass Filter

Specifications

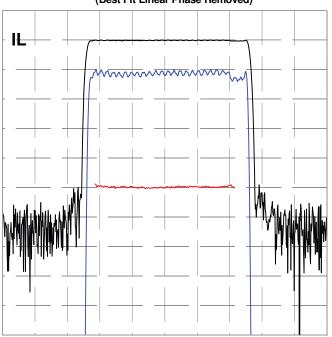
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F ₀		36.775		MHz
Bandwidth	В		5.75		MHz
-3 dB Bandwidth	В3	6	6		MHz
-40 dB Bandwidth	B ₄₀		6.4	6.4	MHz
Delay	T ₀	5.88	5.895	5.92	µsec
Insertion Loss	IL		24.9	27	dB
Amplitude Ripple			0.3	0.5	dB _{P-P}
Phase Ripple			1.2	2.5	deg _{P-P}
Rejection		50	55		dB
Spurious for $ t - T_0 > .9T_0$			-54	-52	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 -70 °C)

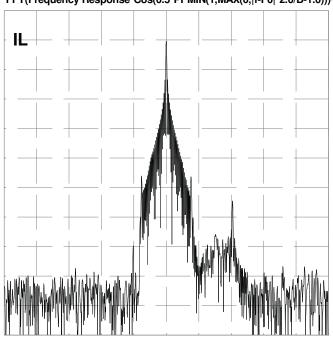
Typical Performance

Frequency Response (Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 1.201 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, 5.779 us/div



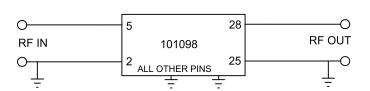
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Package Outline

2 395 Microsemi (6Y858) 101098 1.100 SERIAL NO. DATE CODE .170 MAX PIN ONE INDICATOR .180 MIN. .100 TYP

Matching





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