

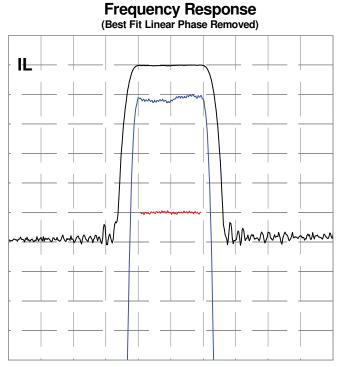
Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	Fo		240		MHz
Bandwidth	В		3.34		MHz
–3 dB Bandwidth	B ₃	3.8	3.9		MHz
–40 dB Bandwidth	B ₄₀		5	5.1	MHz
Delay	To	3.7	3.709	3.72	µsec
Insertion Loss	IL		26.4	35	dB
Amplitude Ripple			0.3	1	dB _{P-P}
Phase Ripple			1.6	3	deg _{P-P}
Rejection		52	57		dB
Spurious for $ t - T_0 > .9T_0$			-47	-42	dB
Substrate Material	36YX-Q				

Notes

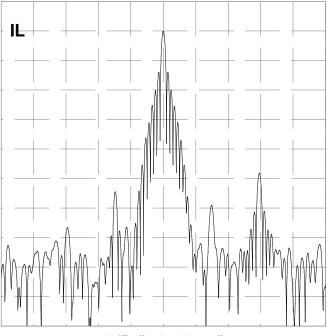
- 1. Center Frequency (F₀) and Bandwidth (B) are defined, not measured.
- 2. Insertion Loss is the minimum loss for $|f F_0| < .5B$
- 3. Ripple spec applies to the $|f F_0| < .4B$, and is doubled for $.4B < |f F_0| < .5B$
- 4. Rejection spec applies to $(B_{40} \text{ Spec} B/2) < |f F_0| < F_0/2$
- 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 $x = 3E-8^*$ (temperature -22 °C)²

Typical Performance



10 dB/div, 1 dB/div, 10 deg/div, 1.600 MHz/div

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



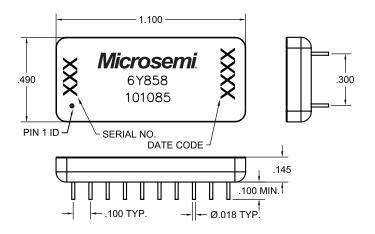
10 dB/div, 2.500 us/div



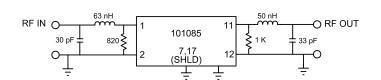
101085C

FB240-3.3 3.34 MHz Bandwidth 240 MHz Bandpass Filter

Package Outline



Matching





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