

# 101177C

### FB184.14-18 18 MHz Bandwidth 184.14 MHz Bandpass Filter

### **Specifications**

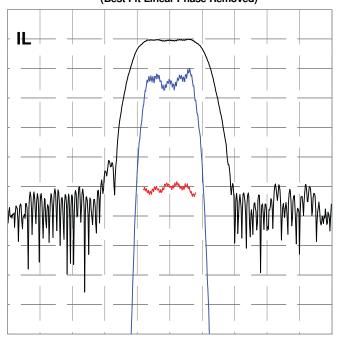
Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	F <sub>0</sub>		184.14		MHz
Bandwidth	В		18		MHz
-3 dB Bandwidth	В3	19.5	19.6		MHz
-40 dB Bandwidth	B <sub>40</sub>		34.1	34.4	MHz
Delay	T <sub>0</sub>	0.79	0.793	0.795	µsec
Insertion Loss	IL		18.3	19	dB
Amplitude Ripple			0.7	1	dB <sub>P-P</sub>
Phase Ripple			4.8	6	deg <sub>P-P</sub>
Rejection		48	49		dB
Spurious for $ t - T_0  > .9T_0$			-41	-39	dB
Substrate Material	128YX-LN				

### **Notes**

- 1. Center Frequency (F<sub>0</sub>) 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)

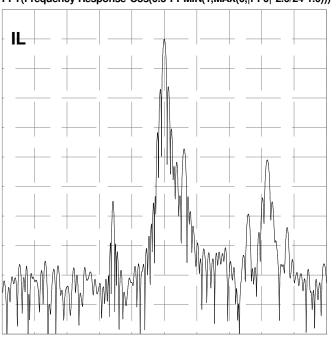
### **Typical Performance**

# Frequency Response (Best Fit Linear Phase Removed)



10 dB/div, 1 dB/div, 10 deg/div, 10.000 MHz/div

# Impulse Response FFT(Frequency Response\*Cos(0.5\*PI\*MIN(1,MAX(0,|f-F0|\*2.0/24-1.0)))^2)



10 dB/div, 0.500 us/div



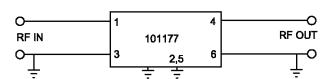
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### **Package Outline**

# ## PIN ONE | Microsemi | 6 Y858 | 101177 | 100 TYP | 1015 TYP | 125 MAX | 12

### Matching





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