

Technical Bulletin

SUMMARY OF SPECIFICATIONS IFM RECEIVER 0.5 –18.0GHz

SUMMARY OF SPECIFICATIONS Demodulator

	Demodulator (1 GHz IF)	Demodulator (160 MHz IF)
AM Log Video Output		
Rise Time	2 nS (max)	30 nS (max)
Fall Time	6 nS (max)	90 nS (max)
Linearity	+/- 1dB (min)	+/- 1dB
Dynamic Range	60 dB (min)	60 dB (min)
Output Impedance	50 ohm	50 ohm
Slope	15 nV/dB	25 mV/dB (nom)
FM Video Output		
Rise Time	6 nS (max)	25 nS (max)
Fall Time	15 nS (max)	25 nS (max)
Linearity BW	300 MHz	75 MHz
Peak to Peak BW	500 MHz	100 MHz
Voltage Range	+/- 2.5 V	+/- 2.5 V
Output Impedance	50 ohm	50 ohm
Slope	10 mV/MHz	50 mV/MHz
Simultaneous I/Q Outputs		
Input	Limited RF	Limited RF
I to Q Amp Tracking	<1 dB	<1 dB
I to Q Phase Tracking	8 deg (max full band)	5 deg (max full band)
Voltage Range	+/- 0.5 V	+/- 0.5 V
LPF 3dB Cut-off Freq	350 MHz	75 MHz
Output Impedance	50 ohm	50 ohm

More information at widebandsystems.com