

FREQUENCY SYNTHESIZER 8620 MODULAR DESIGN SERIES Model No. 6139-6451-XY

- *RWR, EW, Communication Hubs and Instrumentation Applications*
- *Narrowband, Dual Loop Design, Low Cost*
- *Fast Switching Speed and Low Power Dissipation*
- *Internal Reference, Custom Interface Available*

Frequency Coverage	Model GHz -01 4.6 to 6.4 -02 6.4 to 7.8 -03 7.8 to 9.4 -04 9.4 to 11.0 -05 11.0 to 12.6	Model GHz -06 12.6 to 14.0 -07 14.0 to 15.6 -08 15.6 to 17.0 -09 17.0 to 18.5 -10 18.5 to 20.0
Power Output	+10 minimum	
Tuning Control	13 bits (TTL compatible)	
Tuning Step Size	0.2 MHz minimum	
Harmonics	-30 dBc maximum	
Spurious	-60 dBc maximum	
Switching Speed	25 μ sec with 10 MHz Steps 250 μ sec with 1 MHz Steps	
Lock Alarm	TTL, High = Locked	
External Reference		
Frequency	100 MHz	
Power	-3 to +3 dBm	
Input Impedance	50 ohms	
Output VSWR	2.0:1, maximum	
Phase Noise (SSB)	dBc/Hz (typ) 5 MHz Steps	
Offset	@ 9.0 GHz	
100 Hz	-70	
1 kHz	-90	
10 kHz	-100	
100 kHz	-100	
1 MHz	-110	
DC Power	+15 Volts @ 0.85 A, max -15 Volts @ 0.20 A, max	
Temperature Range	-40°C to +85°C	
RF Connectors	SMA Female	
DC and Tuning Connector	31 Pin μ -miniature D	
Weight	2.25 lbs maximum	
Dimensions	3.5" x 6.0" x 1.25"	

Note: Phase Noise within the loop bandwidth is dependent upon external reference phase noise.