

FREQUENCY SYNTHESIZER
8610 MODULAR DESIGN SERIES
Model No. 6139-6450-XY

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

Frequency Coverage	GHz
-00	4.0 to 6.4
-01	6.4 to 9.0
-02	9.0 to 12.0
-03	12.0 to 15.0
-04	15.0 to 18.0
Power Output	+10 min
Tuning Control	13 bits (TTL compatible)
Tuning Step Size	0.8 MHz minimum
Harmonics	-30 dBc, maximum
Spurious	-60 dBc, maximum
Switching Speed	100 μ sec with 10 MHz steps 1 msec with 1 MHz step
Lock Alarm	TTL, High = Locked
External Reference	
Frequency	100 MHz nominal
Power	-3 to +3 dBm
Input Impedance	50 ohms
Output VSWR	2.0:1, maximum
Phase Noise (SSB)	dBc/Hz (typical) 5 MHz steps
Offset	@ 10.5 GHz
100 Hz	-70
1 kHz	-78
10 kHz	-78
100 kHz	-80
1 MHz	-105
DC Power	+15 Volts @ 0.65 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	1.75 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.