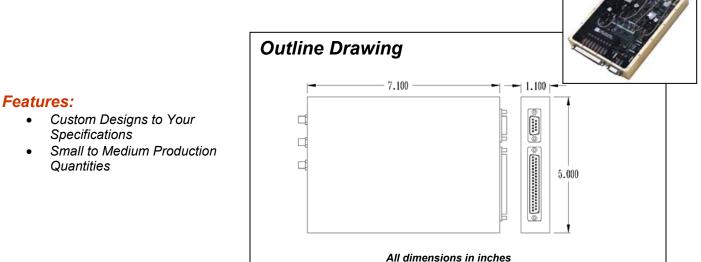


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DS-120B DDS-Based Synthesizer



Overview :

Mid-Atlantic RF Systems manufactures a complete DDS-based frequency synthesizer with a self-contained clock and reference TCXO. It operates from 5 MHz to 120 MHz, TTL controlled through a 37 pin D-sub connector. A 9 pin D-Sub connector provides power and reference select lines.

Electrical Specifications:		
Frequency Range:	5.00 to 120.00 MHz	
Accuracy:	1.0 ppm	
Frequency Resolution:	24 Hz	
Switching Speed:	<10 msec	
Spectral Purity		
Harmonics:	-20 dBc	
Spurious:	5 to 60 MHz, -48 dBc;	
	-27 dBc @ 120 MHz	
Phase Noise		
100 Hz Offset:	-90 dBc/Hz	
1 kHz Offset:	-90 dBc/Hz	
10 kHz Offset:	-90 dBc/Hz	
100 kHz Offset:	-90 dBc/Hz	
Main Output:	+6 dBm ±2 dBm	
Aux. Output:	AC coupled differential	
	Nominal	
	1.0 Vp-p Square Wave,	
	ECL Compatible	
Frequency Reference		
Internal:	10 MHz, 1 ppm	
External:	10 MHz, Tracking $\approx +50$	
Reference Output:	10 MHz, -15 dBm min.	
DC Power:	-5.2 VDC/1.3A nom.; +15	
	VDC; 0.5A nom.	
Control:	TTL Positive Logic	
	e	

Mechanical Specifications:	
Dimensions:	7.1" x 5.0" x 1.1"
Connectors:	SMA(f) x3, 9P D-Sub(m), 37p D-Sub(m)

Environmental Specifications:

Temperature Range: 0 to +50°C