



### DDS Frequency Synthesizer

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Output Frequency Frequency Resolution			0.1	0.058	100	MHz Hz
Output Amplitude Output Power (1 dB Compression)		f = 10 MHz Z <sub>load</sub> = 50 Ω	0.65 0.25		28.3 33.0	V <sub>p-p</sub> dBm
Bandwidth (-3 dB)			0.1		50	MHz
VSWR		Z <sub>load</sub> = 50 Ω		1.5:1	2.0:1	
Digital Step Attenuation Range Resolution			0	0.25	31.75	dB dB
Linear Frequency Ramps Frequency Step Size Time Step Time	Δf Δt		0.058 0.004		262	Hz μs
Signal Monitor Coupling			19	19.5	20	dB
TTL Enable/Disable V high V low On/Off Time Rise/Fall Time	V <sub>HI</sub> V <sub>LO</sub> T <sub>ON</sub> /T <sub>OFF</sub> T <sub>R</sub> /T <sub>F</sub>		3.5 -0.5	60 5	5.1 1.5 120 10	V V ns ns
External Frequency Reference Frequency Amplitude		Z <sub>load</sub> = 50 Ω	0.4 -10	25	2.5 +24	MHz V <sub>p-p</sub> dBm
AC Power Requirements Voltage Frequency			88 47		240 63	VAC Hz
Physical Dimensions  Weight		h x w x d		1.72 x 8.37 x 16.5 4.4 x 21.3 x 41.9 4.0 1.8		inches cm lbs kg