

1.3 PERFORMANCE SPECIFICATIONS

1.3.1 CW Operation

FREQUENCY RANGES AVAILABLE (GHz):	FA - FB
	.01 to 8
	.01 to 12
	.01 to 18
	2 to 8
	2 to 12
	2 to 18
	6 to 12 (5.4 to 12.5 GHz)
	6 to 18
	10 to 18
RESOLUTION:	1 MHz (standard) (1 kHz with Option 03)
ACCURACY/STABILITY:	Identical to time base oscillator
TIME BASE (INTERNAL):	10 MHz
AGING RATE:	$<1 \times 10^{-6}$ /year after 20 minutes continuous operation ($<1 \times 10^{-9}$ /day with Option 06)
TIME BASE (EXTERNAL):	10 MHz, $\pm 1 \times 10^{-6}$ or better

1.3.2 Spectral Purity

HARMONICS (up to maximum frequency of the generator):	<-45 dBc at ≥ 2 GHz (-50 typical) <-30 dBc at <2 GHz
SUBHARMONICS:	None
NONHARMONICS:	<-55 dBc
POWER LINE/FAN RELATED:	<-45 dBc, typical
RESIDUAL FM (50 Hz to 15 kHz BW):	<200 Hz rms
SSB PHASE NOISE (1 Hz BW, 10 kHz offset):	<-75 dBc (<-65 dBc >16 GHz in .01 or 2-18)

1.3.3 RF Output Power

MAXIMUM LEVELED OUTPUTS:	+10 dBm (+8 dBm in Model 6000/.01-18)
RESOLUTION:	0.1 dB
MINIMUM OUTPUT LEVEL:	-120 dBm

RF OFF:	Typically attenuates a 0 dBm signal to <-140 dBm at the output connector
OUTPUT ACCURACY (Internally Leveled):	± 2 dB
OUTPUT FLATNESS:	Included in accuracy
OUTPUT IMPEDANCE:	50 ohms, nominal
OUTPUT SWR:	$< 2:1$
EXTERNAL LEVELING:	Negative detector; gain and offset adjustments provided

1.3.4 General Specifications

REMOTE INTERFACE:	IEEE STD 488-1978, all parameters except AC power on/off
OPERATING TEMPERATURE:	0 to + 50 degrees Celsius
ENVIRONMENTAL:	Complies with MIL-T-28800D, Type III, Class 5, Style E
POWER:	100/120/220/240 VAC $\pm 10\%$, 50-400 Hz, 200 Watts, nominal
WEIGHT AND DIMENSIONS:	

	Net	Packed for Air Shipment
Width	16.75 in. (42.5 cm.)	23 in. (56.4 cm.)
Depth	18.00 in. (45.6 cm.)	25 in. (63.4 cm.)
Height	5.25 in. (13.3 cm.)	12 in. (30.4 cm.)
Volume	.92 cu. ft. (.026 cu. m.)	3.99 cu. ft. (.1128 cu. m.)
Weight	40 lbs. (18.2 kg.)	48 lbs. (21.8 kg.)