

MODEL	6155A	6158A
FREQUENCY RANGE	1.0-2.0GHz	8.0-12.4GHz
RF POWER OUTPUT Minimum	15mW	10mW
FREQUENCY ACCURACY AT 20°C AND MAXIMUM RF POWER	±1%	±0.75%
FREQUENCY PULLING External Internal	±2MHz DUE TO 2:1 VSWR ±2MHz DUE TO 10dB CHANGE IN LEVEL CONTROL	±2MHz DUE TO 2:1 VSWR ±2MHz DUE TO 10dB CHANGE IN LEVEL CONTROL
FREQUENCY STABILITY Warm up time(1)(2) Temperature Coefficient(1)	< 15 min ±0.05%/°C (at 22°C nominal)	< 15 min ±0.01%/°C (at 22°C nominal)
SPECTRAL PURITY (1) (3) AT MAXIMUM RF POWER Residual f.m. Harmonic Content Spurious Output	< 35kHz rms -35dBc (5) -60dBc	< 35kHz rms -40dBc -60dBc
RF LEVEL CONTROL (Internal & External) (4)	20dB	18dB
AMPLITUDE MODULATION Internal Depth (4) (1kHz ±200Hz min) External Depth (4) Rise and Fall Time	20dB 20dB For +10V or +50mA Input < 600ns	18dB 18dB For +10V or +50mA Input < 600ns
FM CAPABILITY Deviation Maximum Rate (-3dB)	±20MHz for ±10V Input 100kHz	±20MHz for ±10V Input 100kHz
SWEEP CAPABILITY Input -3dB Bandwidth(1) Tuning Voltage Output	0 to +10V > 100 Hz 0 to +10V for full sweep, reduced for narrow band	0 to +10V > 100 Hz 0 to +10V for full sweep, reduced for narrow band
OUTPUT CONNECTOR	Precision Stainless Steel 'N' Type Female 50 ohm	Precision Stainless Steel 'N' Type Female 50 ohm
POWER REQUIREMENTS	100-125 or 200-250V, 50-60 Hz, 60VA	100-125 or 200-250V, 50-60 Hz, 60VA
DIMENSIONS AND WEIGHT	Height Width Depth Weight 98mm 270mm 254mm 6.1kg 3 7/8 in 10 1/2 in 10 in 13 1/2 lb	Height Width Depth Weight 98mm 270mm 254mm 6.1kg 3 7/8 in 10 1/2 in 10 in 13 1/2 lb
ENVIRONMENTAL: TEMPERATURE	10+35°C meets specification 0,+50°C operating -40,+70°C storage	10,+35°C meets specification 0,+50°C operating -40,+70°C storage

(1) Typical values

(2) To be within frequency accuracy

(3) In CW and FM modes

(4) AM depth is dependent on R.F. level control settings and external modulation input. As only one modulator is used for all AM functions it therefore has a summation capability.

(5) Below 1.5GHz carrier frequency, this may rise to -15dBc.