

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	±2MHz DUE TO 2:1 VSWR	±2MHz DUE TO 2:1 VSWR
Internal	±2MHz DUE TO 10dB CHANGE IN LEVEL CONTROL	±2MHz DUE TO 10dB CHANGE IN LEVEL CONTROL
FREQUENCY STABILITY		
Warm up time(1)(2)	< 15 min	< 15 min
Temperature Coefficient(1)	±0.05%/°C (at 22°C nominal)	±0.01%/°C (at 22°C nominal)
SPECTRAL PURITY (1) (3) AT MAXIMUM RF POWER		
Residual f.m.	< 35kHz rms	< 35kHz rms
Harmonic Content	-35dBc (5)	-40dBc
Spurious Output	-60dBc	-60dBc
RF LEVEL CONTROL (Internal & External (4))	20dB	18dB
AMPLITUDE MODULATION		
Internal Depth (4) (1kHz ±200Hz min)	20dB	18dB
External Depth (4)	20dB For +10V or +50mA Input	18dB For +10V or +50mA Input
Rise and Fall Time	< 600ns	< 600ns
FM CAPABILITY		
Deviation	±20MHz for ±10V Input	±20MHz for ±10V Input
Maximum Rate (-3dB)	100kHz	100kHz
SWEEP CAPABILITY		
Input	0 to +10V	0 to +10V
-3dB Bandwidth(1)	> 100 Hz	> 100 Hz
Tuning Voltage Output	0 to +10V for full sweep, reduced for narrow band	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.