

# General information

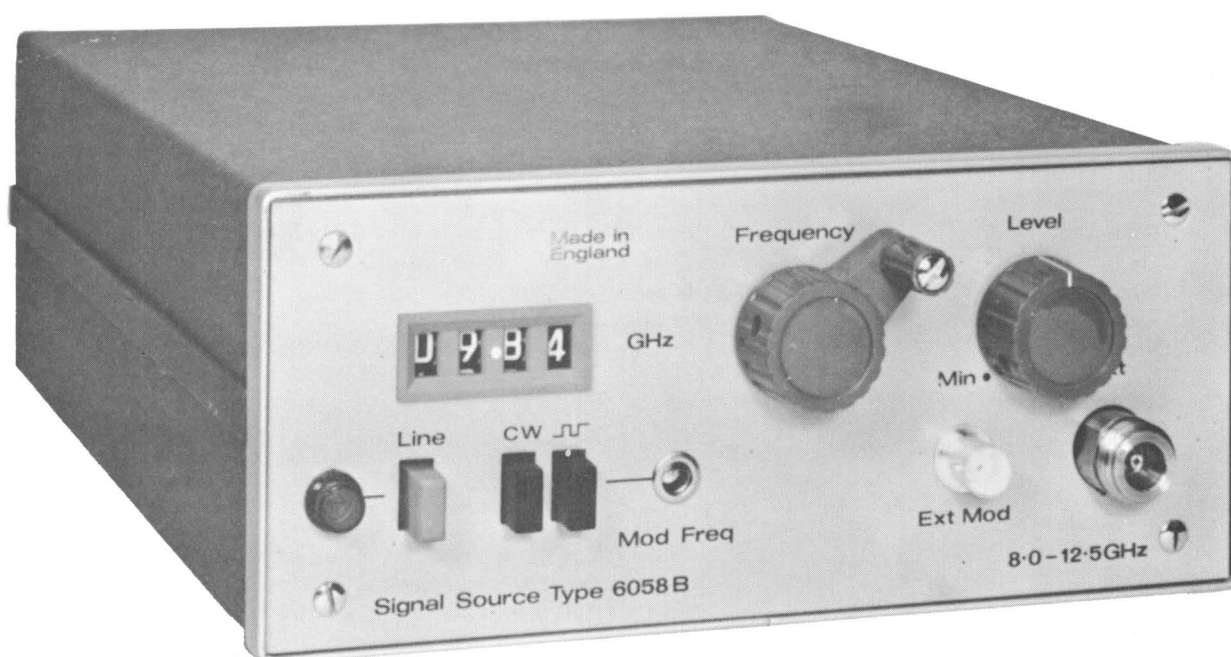


Fig. 1 Marconi Instruments Signal Source Type 6058B

## 1.1 SPECIFICATION

### FREQUENCY

Range	8.0 to 12.5 GHz in one continuous band
Scale Accuracy	$\pm 1\%$
Stability (Typical) (After one hour warm up in stable environment)	
Short Term (5 min)	0.003% (Allowing settling time of 15 min after frequency change)
Long Term (1 hour)	0.008%
Line stability	0.001% per 10V change in range 200 to 260V
With Temperature	0.006%/°C in range 10 to 50°C

Pulling (Typical) (Frequency pull due to mismatch of 50:1) at 8.0 GHz at 10.0 GHz at 12.0 GHz	0.09% 0.06% 0.09%
Output Power	Not less than 20 mW in 50Ω
Attenuator	Internally and externally fully variable over at least 15 dB
Impedance	50Ω
Output Connector	Precision stainless steel female 'N' Type
SIGNAL PURITY Harmonic Content Residual F.M.	Not greater than -20 dB relative to fundamental Typically 10 p.p.m.
Amplitude Modulation Internal	15 dB depth modulation, variable over at least 100 Hz either side of a nominal 1 kHz squarewave.
External	Up to 17 dB depth for a 100 mA input. Rise time being faster than 5 μs.
Output Levelling	Compatible with levelling amplifier Type 6587, to level output within 0.1 dB (excluding detector and coupler variations).
Power Requirements Supply Voltage Input Power	100 to 120 or 200 to 260V 50 to 60 Hz. 20 VA
Dimensions	Height: 98 mm (3.7/8 in) Width: 203 mm (8 in) Depth: 286 mm (11.1/4 in) Weight: 4.0 kg
Accessories	A wide range of precision coaxial components is available for use with this instrument.