

**Model 533X-11M**  
**Variable Repetition Rate Impulse Generator (Calibrator)**  
**10kHz–1GHz**

Model 533X-11M, variable repetition rate impulse generator (VRRIG) is a calibrated broadband signal source primarily intended for use as a calibrator when performing substitution type interference measurements. The 533X-11M pulse repetition rate is variable from 50 Hz–5 MHz or it may be triggered by the power line frequency, an external trigger source or manually. The availability of these various operating modes provides versatility not found in other impulse generators. The model 533X-11M is completely solid state and applications for it include: calibrated broadband signal source; used as a calibrator for substitution type broadband interface measurements; receiver bandwidth measurement and rapid gain checking of tuners.



**Model 533X-11M Specifications**

Frequency Range.....	<10 kHz – 1 GHz
Spectral Output Range.....	-40 dB to +80 dB above 1 $\mu$ V/MHz; Peak in 1 dB steps The output has been calibrated in terms of peak spectral intensity or the impulse output is in terms of true peak of a sine wave, which would have the same peak amplitude as the impulse signal.
Spectral Flatness.....	Better than 1 dB from 10 KHz – 100 MHz, down less than 3 dB at 500 MHz and less than 7 dB roll-off at 1 GHz calibration curve finished
Output Impedance .....	Matches 50 ohms resistive load
Pulse Repetition Rate .....	50 Hz – 5 MHz, line and single pulse
RF Output .....	Rear panel, Type N receptacle
Sync Output .....	Rear panel, BNC receptacle
External Trigger .....	Sync output receptacle, 1.5 volts peak required
Attenuator .....	Two panel controls: 110 dB range in 1 dB steps, 10 dB range in 1 dB steps
Pulse Polarity .....	Positive only
Power .....	105 – 125V or 210 – 250V
AC Line.....	50 – 70 Hz, 7 watts nominal
Operation Temperature .....	0 – 50°C
Physical size .....	88.9 x 482.6 x 330.2 mm (3.5 x 19 x 13 in) Mounts in a 482.6 mm (19 in) rack
Weight.....	6.65 kg (14.5 lb)