

IMPULSE GENERATOR


■ The Model IG-1700 Impulse Generator is a solid state RF impulse generator covering the frequency range of 11 Hz to 1 GHz. The IG-1700 may be used as a calibration source for the R-110B or other wide range receivers and may be integrated into the DSI-110, DSI-120, DSI-2020 and DSI-200 systems. It provides impulses at repetition rates and amplitudes selected by front panel controls or via the IEEE-488 bus.

■ The IG-1700 features an uncomplicated front panel with discrete LED displays to indicate the pulse repetition rate and the actual output amplitude in dBuV/MHz at 100 MHz. Provision is made for pulses to be triggered by an adjustable internal time base (manually, externally, or by the AC line). Pulse repetition rate and amplitude may also be programmed via the IEEE-488 interface bus. Calibration curve is supplied providing amplitude referenced to 100 MHz.

FEATURES

- Inexpensive calibration source
- Accurate calibration signals to 1 GHz
- Useful frequency and amplitude calibration source
- Pulse repetition rate single or repetitive, internal or external, or synchronized to the AC line
- Fully programmable via the IEEE-488 bus
- Lightweight/easy to handle

SPECIFICATIONS	
Frequency Range:	100 Hz to 1 GHz
Output Type:	High amplitude, low duty cycle pulses
Repetition Rate:	Single, 10 Hz to 1 MHz in decade steps
Frequency Stability:	5×10^{-6} from 0 to 50 C
Output Level Display:	LED with 1 dB resolution indicating dBuV/MHz referenced to 50 MHz
Maximum Output Level:	80 dBuV at 50 MHz
Output Attenuation Range:	121 dB in 1 dB steps
Output Impedance:	50 Ohms nominal
Output Connector:	Female type N on rear panel
External Sync Input:	DC to 2 MHz, TTL level, 200 nsec minimum width positive pulses, female BNC connector
I/O Communication Port Type:	IEEE-488
Remote Indicator:	Front Panel LED
Operating Temperature:	0 to 50 C
Storage Temperature:	-40 to 75 C
Power Requirements:	115/230 VAC +/- 10 % 50-60 Hz, single phase, 30W max
Standard Dimensions:	3.5" high x 8.5" wide x 17" deep
Rack-Mount Dimensions:	3.5" high x 8.5" wide x 15.5" deep
Weight:	13 lbs

