

Specifications & Operating Performance

Except as noted, the following specifications apply to both the Model 600 & Model 605.

		600/2-8 Model 605/2-8	600/6-12 Model 605/6-12	600/10-18 Model 605/10-18
FREQUENCY	Range Resolution Accuracy and Stability Time Base (Internal) Time Base (External) Time Base Output	2 to 8 GHz	5.4 to 12.5 GHz 1kHz throughout the frequency range Same as time base	10 to 18 GHz
SPECTRAL PURITY	Harmonics, Subharmonics Spurious (Nonharmonics) Power Line/Fan Related SSB Phase Noise (1HzBW)	<-40dBc <-55dBc <-45dBc	<-40dBc <-55dBc <-45dBc Typically less than -75dBc at 10kHz offset	<-50dBc <-55dBc <-45dBc
OUTPUT	Range Resolution Accuracy Flatness Output Impedance Output Connector Source SWR External ALC		+10 to -119dBm 0.1dB ± 2dB ± 1dB 50ohms, nominal Type N > 2:1 Negative Crystal Detector gain and offset adjustments provided	
PULSE MODULATION	External — Pulse — Trigger Internal — Square Wave — Rep Rate — Delay — Width Rise/Fall Times On/Off Ratio Sync Output Video Output	(Model 600 only) (Model 605 only) (Model 600 only) (Model 600 only) (Model 600 only) (Model 600 only) (Model 600 only) (Model 600 only)	TTL Input, 10Hz-1MHz rep rate, >0.1µsec width, pos level = RF on, BNC +2V, 10Hz-1MHz, triggers delay and width set on Model 600 Fixed 1kHz rep rate Variable, 10Hz to 1MHz, in 5 ranges Variable, 10nsec to 0.1sec, in 7 ranges Variable, 50nsec to 0.1sec, in 6 ranges, >75% duty factor <25nsec >80dB +1V pulse into 50ohms, approx 50nsec wide, BNC TTL level modulation waveform	
AMPLITUDE MODULATION	External — Rate — Depth — Sensitivity — Input Z — Distortion Internal — Sine Wave — Sine Wave — Square Wave Display Accuracy	(Model 600 only) (Model 600 only)	10Hz to 100kHz, 3dB Points referenced to 1kHz, any waveform 0 to 82% (0 to 20dB), min 1V, p-p, for 50% modulation at 1kHz rate 600ohms, AC coupled, BNC <5% at 50% depth and 1kHz rate (sine wave) Fixed 1kHz rate, 0 to 82% depth Rate variable, 10Hz-100kHz, in 4 ranges; 0-82% depth Rate variable, 10Hz-100kHz, in 4 ranges; 0-82% depth ± 10% at 50% depth and 1kHz rate	
FREQUENCY MODULATION	External — Rate — Deviation — Sensitivity — Input Z — Distortion Internal — Triangle — Triangle — Sine Wave Display Accuracy	(Model 600 only) (Model 600 only)	10Hz to 1MHz ± 5MHz, peak 2.5V, peak, for maximum deviation 50ohms, nominal, BNC <5% at 500kHz rate at 5MHz peak deviation Fixed 1kHz rate: ± 5MHz, peak, deviation Rate variable, 10Hz-100kHz, in 4 ranges: ± 5MHz, peak, dev Rate variable, 10Hz-100kHz, in 4 ranges: ± 5MHz, peak, dev ± 10% at 3MHz deviation and 100kHz rate	