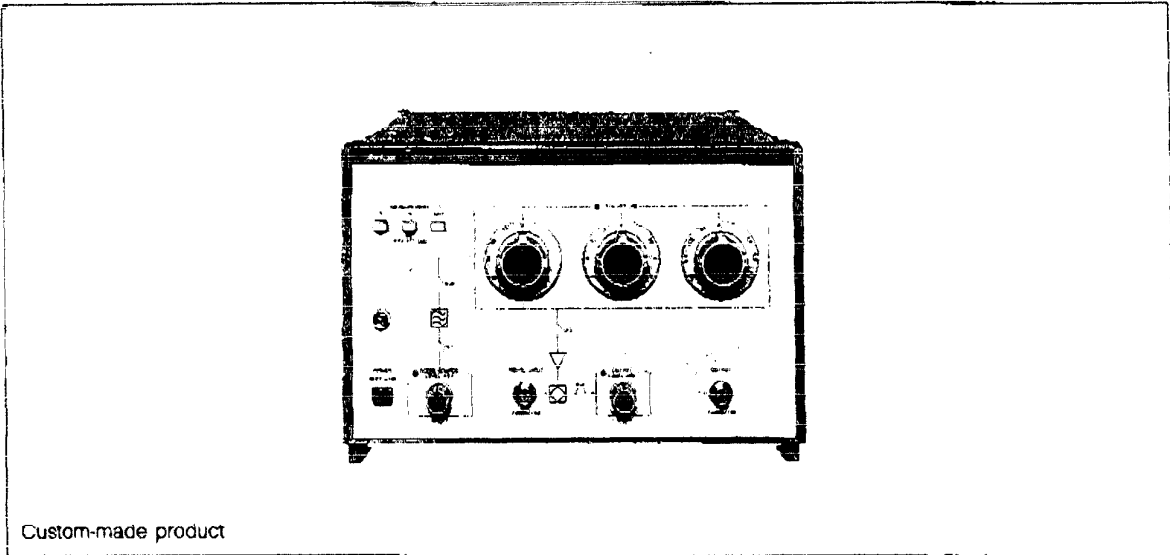


PCM MEASURING INSTRUMENTS

NOISE GENERATOR MG445A/B 70 MHz Band



Custom-made product

The MG445A/B is a noise generator designed for applying noise in the 70 MHz band to IF signals with an S/N ratio adjustable from 0 to 71 dB. The MG445A/B can also be combined with error-rate measuring equipment to measure noise margin characteristics of digital microwave radio systems.

The MG445A has an internal bandpass filter for the 70 ± 20 MHz band, while the MG445B does not. Both, however, are designed to permit user-installation of a bandpass filter where necessary.

Specifications

Model		MG445A	MG445B	
IF signal	Input power	+4 dBm \pm 1 dB (70 MHz)	-3 dBm \pm 1 dB (70 MHz)	0 dBm \pm 1 dB (70 MHz)
	Output power	+4 dBm \pm 2 dB (70 MHz)	-3 dBm \pm 2 dB (70 MHz)	0 dBm \pm 2 dB (70 MHz)
	Flatness	0.4 dB (50 to 90 MHz)		
	Group delay	0.7 ns (50 to 90 MHz)		
	Input/output	Impedance	75 Ω nominal to ground	
Return loss		> 26 dB (50 to 90 MHz)		
Connector		SP female		
Noise source	Flatness	See Fig. 1	2 dB (50 to 90 MHz)	
	Maximum output power	+6 dBm	+1 dBm	+2 dBm
Attenuator for S/N ratio setting	Variable range	0 to 71 dB (0.1 dB steps)		
	Step accuracy	\pm 0.3 dB (0 to 71 dB)		
Power	AC 100 V, 50/60 Hz, \leq 65 VA			
Ambient temperature, rated range of use	0° to 50°C			
Dimensions and weight	177H x 284W x 351D mm, < 11 kg			