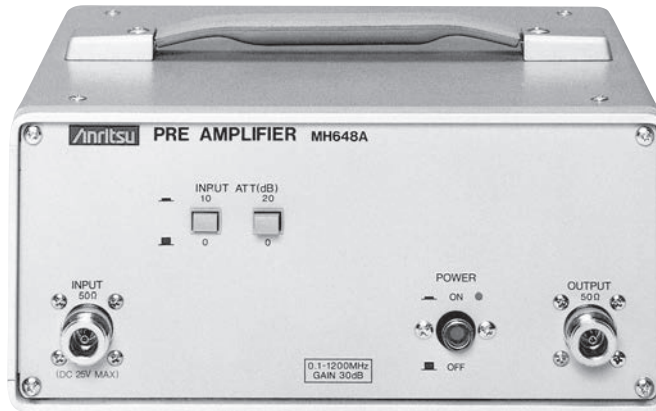


Pre-Amplifier

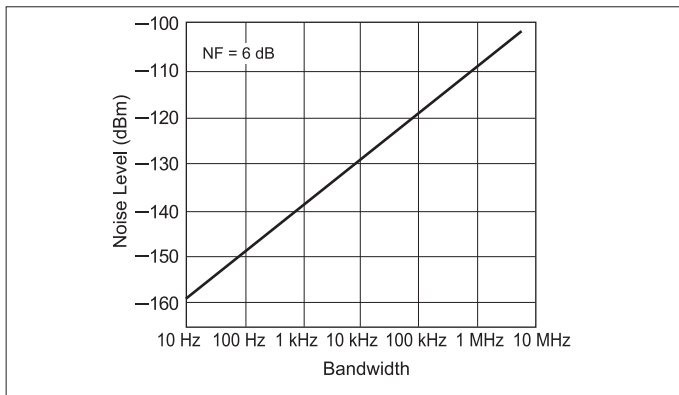
MH648A

100 kHz to 1200 MHz

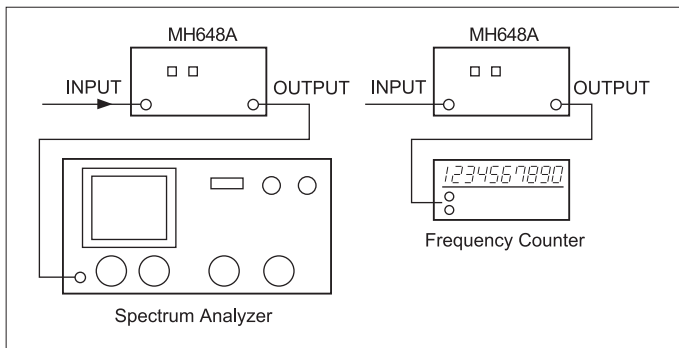
For Amplifying Low-Level Signals



The MH648A is a pre-amplifier for improving sensitivity in spectrum analyzers, field strength meters, frequency counters.



Noise Level Converted to Input Value vs. IF Bandwidth



Specifications

Frequency Range	100 kHz to 1200 MHz
Gain	30 dB ±1 dB (500 kHz to 800 MHz) 30 dB +1.5/-6 dB (100 kHz to 1200 MHz) *Input attenuator: 0 dB, 20° to 30°C
Gain Stability	±1.5 dB (100 kHz to 800 MHz) ±3 dB (800 MHz to 1200 MHz)
Noise Figure	≤6 dB (500 kHz to 800 MHz) ≤8 dB (100 kHz to 1200 MHz) *Input attenuator: 0 dB
Maximum Output	≥120 dBμV (+7 dBm) *Output at which the gain decreases 1 dB
Input Attenuator	0, 10, 20, 30 dB ±1.5 dB
Input/Output Connector	N (S)-type, 50Ω VSWR: ≤2.5 (500 kHz to 800 MHz),
Power Supply*	AC: 100 V, 50 Hz/60 Hz, ≤10 VA
Operating Temperature Range	0° to 45°C
Dimensions and Mass	210 (W) × 95 (H) × 200 (D) mm, ≤3.5 kg

*: Products shipped after April 2016 only support AC power. There is no support for DC (+21 V to +30 V, ≤120 mA).

Ordering Information

Please specify the model/order number, name and quantity when ordering. The names listed in the chart below are Order Names. The actual name of the item may differ from the Order Name.

Model/Order No.	Name	
MH648A	Main frame Pre-amplifier	
	Standard accessories	
J0025A	Coaxial Cable (S-5DWP · 5D-2W · S-5DWP), 1 m:	1 pc
	Power Cord:	1 pc
F0002	Fuse, 0.2 A:	3 pcs
W0261CE	MH648A Instruction Manual:	1 copy