

Test Equipment Solutions Datasheet

Test Equipment Solutions Ltd specialise in the second user sale, rental and distribution of quality test & measurement (T&M) equipment. We stock all major equipment types such as Spectrum Analyzers, Signal Generators, Oscilloscopes, Power Meters, Network Analyzers etc from all the major suppliers such as Keysight, Tektronix, Anritsu and Rohde & Schwarz.

We are focused at the professional end of the marketplace, primarily working with customers for whom high performance, quality and service are key, whilst realising the cost savings that second user equipment offers. We fully test & refurbish equipment in our in-house, traceable Lab. Items are supplied with manuals, accessories and typically a full no-quibble 1 year warranty. Our staff have extensive backgrounds in T&M which enables us to deliver industry-leading service and support. We endeavour to be customer focused in every way right down to the detail, such as offering free delivery on sales, presenting flexible technical + commercial solutions and supplying a loan unit during warranty repair, if available.

As well as the headline benefit of cost saving, second user offers shorter lead times, higher reliability and multivendor solutions. Rental, of course, is ideal for shorter term needs and offers fast delivery, flexibility, try-before-you-buy, zero capital expenditure, lower risk and off balance sheet accounting. Both second user and rental improve the key business measure of Return On Capital Employed.

We are based in at Oakley, Bedfordshire in the UK from where we supply test equipment worldwide. Our facility incorporates Sales, Support, Admin, Logistics and our own in-house Lab.

All products supplied by Test Equipment Solutions include:

- No-quibble parts & labour warranty (we provide transport for UK mainland addresses).
- Free loan equipment during warranty repair, if available.
- Full electrical, mechanical and safety refurbishment in our 40GHz in-house Lab.
- Certificate of Conformance (calibration available on request).
- Manuals and accessories required for normal operation.
- Free insured delivery to your UK mainland address (sales).
- Support from our team of seasoned Test & Measurement engineers.
- ISO9001 quality assurance.

Test Equipment Solutions Ltd
Unit 3 Highfield Court
Highfield Road
Oakley
Bedfordshire
MK43 7TA

Telephone: 01183 800 800

Email: info@TestEquipmentHQ.com
Web: www.TestEquipmentHQ.com

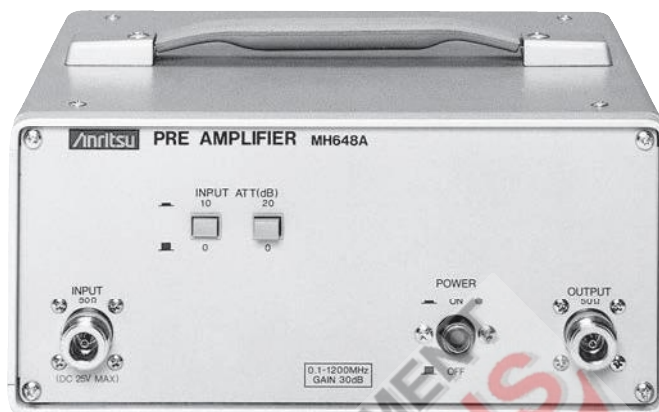


Pre-Amplifier

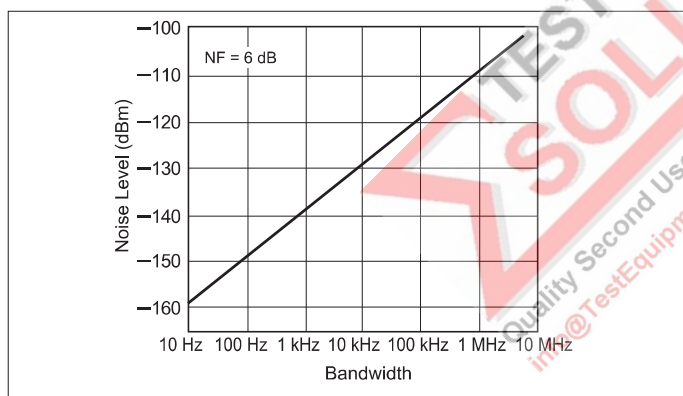
MH648A

100 kHz to 1200 MHz

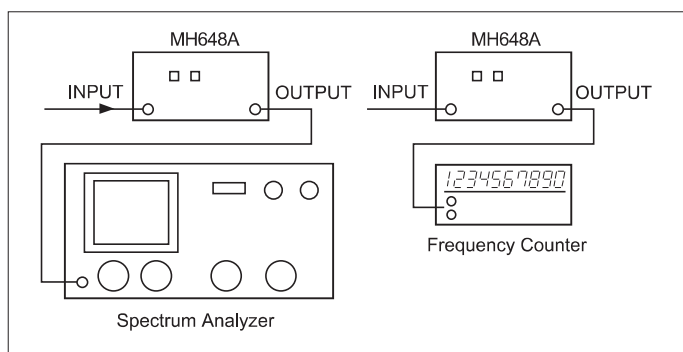
For Amplifying Low-Level Signals



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

*: Products shipped after April 2016 only support AC power.
There is no support for DC (+21 V to +30 V, $\leq$ 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
J0025A	Standard accessories Coaxial Cable (S-5DWP · 5D-2W · S-5DWP), 1 m: 1 pc
F0002	Power Cord: 1 pc
W0261CE	Fuse, 0.2 A: 3 pcs
	MH648A Instruction Manual: 1 copy