

Preamplifier for Tektronix EMC pre-compliance

EMI-PREAMP (Com-Power PAM-103 offered by Tektronix)



Key features

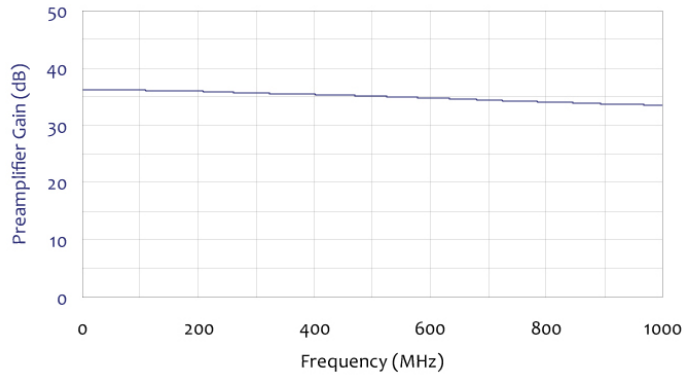
- Wide frequency range (1 MHz to 1 GHz)
- Internal battery or AC adapter operation (>13 hours per charge)
- High gain, low noise figure (33 dB Gain (typical)) (3.3 dB noise figure)
- Individual calibration included

The EMI-PREAMP preamplifier is intended for improving measurement system sensitivity during EMC compliance testing. With a frequency range of 1 to 1000 MHz and a gain of 33 dB, it amplifies the signals that were previously hidden below the noise floor of the EMI receiver so that they can be seen and measured. The preamplifier has a gain variation of ± 3 dB for the entire frequency range to reduce measurement errors. It can be powered by the rechargeable NiMH batteries included when an external power source is not available.

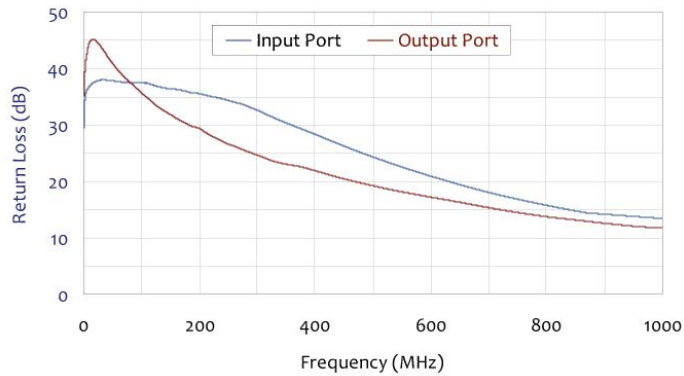
Specifications

Preamplifier

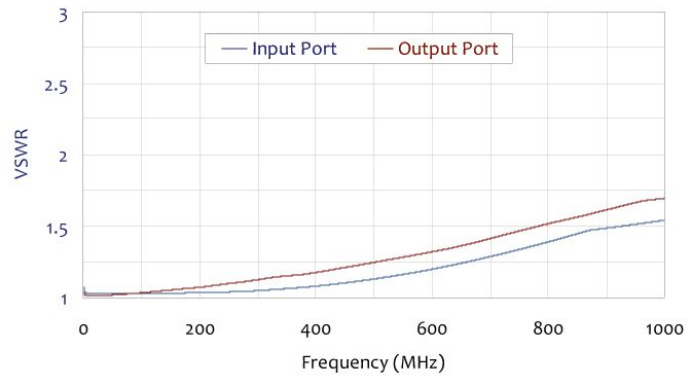
Frequency range 1 MHz –1 GHz
 Preamplifier gain 33 dB (3 dB)



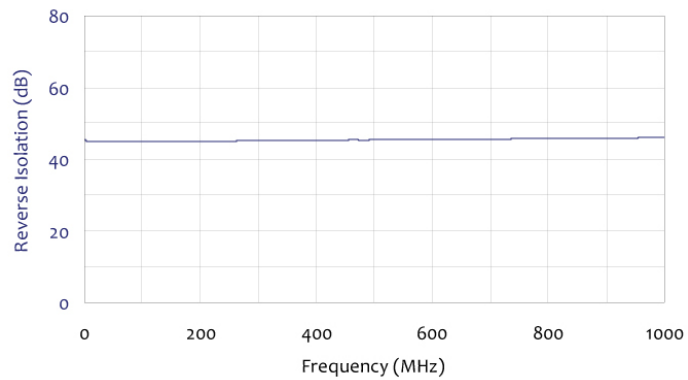
Linear RF input range < -30 dBuV – 89 dBuV
 POUT at 1 dB compression 18.3 dBm
 POUT at 3 dB intercept (IP3) 32 dBm
 Noise figure < 3.3 dB
 Input sensitivity -30 dBuV (< 31.6 nV)
 RF input/output ports 50 Ω N-type (female)
 Return loss (RF input/output ports) 29.5 dB (minimum), 44 dB (average)



VSWR (RF input/output ports) 1.69:1 (maximum), 1.25:1 (average)



Reverse isolation >40 dB (output port to input port)



Operating temperature	0° to 40° C (32° to 104° F)
Maximum RF input ratings	107 dB μ V (225 mV), 0 dBm (1 mW), 2 VDC
Power supply (input)	100 to 240 V AC, 50/60 Hz; IEC60320 C14 receptacle
Power supply (output)	+ 15 V \pm 1%; 4 A maximum
Battery runtime	>13 Hours (with new, fully-charged batteries)
Dimensions	6 cm x 16.7 cm x 21 cm
Weight	1.45 kg

Ordering information

EMI-PREAMP preamplifier and related accessories

Item	Description
EMI-PREAMP	1 MHz to 1 GHz preamplifier
119-8727-00	Power supply: AC-DC, Desktop; 90-264VAC 47-63HZ, IEC320-C14 IN; 5 VDC 4 A, Cable with 5.5MM OD 2.5MM ID Barrel out; comes with 133-0099-00 ADAPTER PLUG; Safety controlled

International power plugs

Opt. A0	North America power plug (115 V, 60 Hz)
Opt. A1	Universal Euro power plug (220 V, 50 Hz)
Opt. A2	United Kingdom power plug (240 V, 50 Hz)
Opt. A3	Australia power plug (240 V, 50 Hz)
Opt. A4	North America power plug (240 V, 50 Hz)
Opt. A5	Switzerland power plug (220 V, 50 Hz)
Opt. A6	Japan power plug (100 V, 50/60 Hz)
Opt. A10	China power plug (50 Hz)
Opt. A11	India power plug (50 Hz)
Opt. A12	Brazil power plug (60 Hz)
Opt. A99	No power cord

Service

All service provided by Com-Power Corporation. Contact <https://www.com-power.com/index.html> for service.

ASEAN / Australasia (65) 6356 3900
Belgium 00800 2255 4835*
Central East Europe and the Baltics +41 52 675 3777
Finland +41 52 675 3777
Hong Kong 400 820 5835
Japan 81 (3) 6714 3086
Middle East, Asia, and North Africa +41 52 675 3777
People's Republic of China 400 820 5835
Republic of Korea +822 6917 5084, 822 6917 5080
Spain 00800 2255 4835*
Taiwan 886 (2) 2656 6688

Austria 00800 2255 4835*
Brazil +55 (11) 3759 7627
Central Europe & Greece +41 52 675 3777
France 00800 2255 4835*
India 000 800 650 1835
Luxembourg +41 52 675 3777
The Netherlands 00800 2255 4835*
Poland +41 52 675 3777
Russia & CIS +7 (495) 6647564
Sweden 00800 2255 4835*
United Kingdom & Ireland 00800 2255 4835*

Balkans, Israel, South Africa and other ISE Countries +41 52 675 3777
Canada 1 800 833 9200
Denmark +45 80 88 1401
Germany 00800 2255 4835*
Italy 00800 2255 4835*
Mexico, Central/South America & Caribbean 52 (55) 56 04 50 90
Norway 800 16098
Portugal 80 08 12370
South Africa +41 52 675 3777
Switzerland 00800 2255 4835*
USA 1 800 833 9200

* European toll-free number. If not accessible, call: +41 52 675 3777

For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tek.com.

Copyright © Tektronix, Inc. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks, or registered trademarks of their respective companies.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [tektronix](#) manufacturer:

Other Similar products are found below :

[TDS3BATC](#) [DCM320](#) [TDS3TRG](#) [AFG1022](#) [AFG3102C](#) [TBS1102B](#) [TCP2020](#) [TCP312A](#) [TDS2022C](#) [MDO3EMBD](#) [MDO3AFG](#)
[MDO3COMP](#) [DMM4020](#) [DPO2CONN](#) [TPP1000](#) [P2221](#) [TPA-BNC](#) [P6021A](#) [P5122](#) [TBS1202B](#) [TBS1072B](#) [A621](#) [PWS2323](#) [3724-ST](#)
[TDS3012C](#) [ENCORE](#) [AFG31051](#) [AFG31101](#) [AFG31102](#) [AFG31152](#) [P5202A](#) [PROMO](#) [P5100A](#) [PROMO](#) [AFG1062](#) [MDO3054](#)
[DPO2COMP](#) [TDS2001C](#) [TCP0020](#) [TBS1064](#) [AC2100](#) [P2220](#) [PROMO](#) [MDO3BND](#) [MDO3052](#) [THDP0200](#) [DPO2024B](#) [TBS1154](#) [EMI-](#)
[NF-PROBE](#) [P2221](#) [PROMO](#) [TPP0101](#) [DPO2BND](#) [P6316-DEMO](#) [TLP058-DEMO](#)