Avionics

RDX-7708 Weather Radar Test Set





Comprehensive RF Test Set for ARINC 708 Solid State Coherent Weather Radar Systems

- Endorsed by OEM Weather Radar System manufacturers
- Built-in Doppler shift
- Digital readout of output frequency or PRF
- Digital readout of transmitter power PRF controlled manually, or by transmitter or external sync input
- Pulse width manually controlled, equal to transmitter input or 270 microseconds (fixed)

Aeroflex is a leader in the design, manufacture and marketing of Avionics test systems.

The RDX-7708 test sets provide an RF source and monitor for complete RF testing of ARINC 708 T/R (Transmitter/Receiver) units including wind shear variants.

Transmitter Power measurement is via a waveguide mounted RF power module. This method minimizes measurement errors due to RF coaxial cable loss variations.

Additional Features

- Range reply selectable in 1 μs or 1 mile increments
- RF output adjustable in 1 dBm increments to -127 dBm
- Contour boost in 0.1 dB increments to +20 dB
- · Built-in variance modulator

All the above features can be remotely controlled through the IEEE 488-1978 GPIB versions.

· Monitor outputs for detector, spectrum analyzer and sync

SPECIFICATIONS

RDX-7708R, BRW

REFERENCE RF INPUT

152.777 MHz

78.6616 MHz

RF OUTPUT (REFERENCE OR VARIABLE)

FREQUENCY

RDX-7708 Range

9295 to 9425 MHz

OUTPUT LEVELS

Range

-50 to -127 dBm in 1 dB steps (at 20 dB coupler output)

Accuracy

±2 dB over frequency and attenuation range

CONTOUR BOOST

Range

0 to 19.9 dB for RF outputs ≤ -70 dBm

DOPPLER OFFSET

Range

0 to +29 kHz

Resolution

1 kHz

RF ON/OFF Ratio

70 dB or greater

PULSE MODULATION

INTERNAL PRF GENERATOR

Range

0 to 9999 pps

Resolution

1 Hz

OUTPUT PULSE WIDTH

Range

0 to 99 ms and 270 μs (fixed)

Resolution

0.1 μs

RETURN DELAY

Range

1 to 999 μs or NM

Resolution

1 unit

DISPLAYS

FREQUENCY COUNTER

Accuracy

±3 kHz

Resolution

1 kHz

PEAK POWER INDICATOR

Range

RDX-7708 - 40 to 250 W

Accuracy

-0.6 dB

Resolution

1 W

GENERAL

Dimensions

427 mm wide, 178 mm high, 467 mm deep

16.8 in. wide, 7 in. high, 18.4 in. deep

Weight

RDX-7708 - 15 kg (33 lbs.)

Power Requirements

RDX-7708 110/220 VAC, 50-400 Hz

Power Consumption

100 W

VERSIONS AND ACCESSORIES

When ordering please quote the full ordering number information.

Ordering Numbers

Selection Information

RDX-7708BRW X band

RDX-7708CRW Dual reference

Versions

RDXR RDX-7708R Weather Radar Bench Test (152.777

MHz/GPIB)

RDXBRW RDX-7708BRW Weather Radar Bench Test (78.6616

MHz)

Accessories (Supplied)

Line Cord

Microwave Coaxial Cable

BNC to BNC Coaxial Cable (Video Detector)

RF Power Module

20 dB Attenuator (RDX-7708 only)

CHINA Beijing

Tel: [+86] (10) 6467 2761 2716 Fax: [+86] (10) 6467 2821

CHINA Shanghai

Tel: [+86] (21) 6282 8001 Fax: [+86] (21) 62828 8002

FINLAND

Tel: [+358] (9) 2709 5541 Fax: [+358] (9) 804 2441

FRANCE

Tel: [+33] 1 60 79 96 00 Fax: [+33] 1 60 77 69 22 **GERMANY**

Tel: [+49] 8131 2926-0 Fax: [+49] 8131 2926-130

HONG KONG

Tel: [+852] 2832 7988 Fax: [+852] 2834 5364

INDIA

Tel: [+91] 80 5115 4501 Fax: [+91] 80 5115 4502

KOREA

Tel: [+82] (2) 3424 2719 Fax: [+82] (2) 3424 8620 **SCANDINAVIA**

Tel: [+45] 9614 0045 Fax: [+45] 9614 0047

SPAIN

Tel: [+34] (91) 640 11 34 Fax: [+34] (91) 640 06 40

UK Burnham Tel: [+44] (0) 1682 604455 Fax: [+44] (0) 1682 662017 **UK Stevenage**

Tel: [+44] (0) 1438 742200 Fax: [+44] (0) 1438 727601 Freephone: 0800 282388

USA

Tel: [+1] (316) 522 4981 Fax: [+1] (316) 522 1360 Toll Free: 800 835 2352



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www.aeroflex.com info-test@aeroflex.com







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