

INSTRUCTION MANUAL

SERIES A710

TRAVELING WAVE TUBE AMPLIFIERS

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Table 1-1. General Specifications

Prime Power.....115V \pm 10%, 50/60 Hz

RF Output:

Power.....1 KW
 Impedance.....50 Ω
 VSWR.....2.5:1 max.
 Connector.....Type N

RF Input:

Impedance.....50 Ω
 VSWR.....2.5:1 max.
 Connector.....Type N

Modulation:

Impedance.....50 Ω
 Input level.....+5 volts peak
 Trigger delay.....400 ns max.
 Pulse width range.....100 ns to 10 μ s
 Rise and fall time.....40 ns nominal
 Connector required.....Type BNC

Dimensions:

Height.....14"
 Width.....19"
 Depth.....25"

Weight.....150 pounds max.

Temperature:

Operating.....0 $^{\circ}$ C to +50 $^{\circ}$ C
 Storage.....-10 $^{\circ}$ C to +65 $^{\circ}$ C

Table 1-2: Specifications for Individual Model Numbers

Model Number	Frequency Range GHz	Minimum Gain dB	Maximum Noise Figure dB	Maximum Duty Cycle %
A710/L	0.7 - 2.0	30	35	1
A710/S	2.0 - 4.0	35	35	2
A710/SC	2.65 - 5.3	35	35	2
A710/C	4.0 - 8.0	35	35	2
A710/CX	5.0 - 10.0	35	35	2
A710/X	8.0 - 12.0	40	35	2
A710/XU	8.5 - 16.0	40	35	2
A710/U	12.0 - 18.0	40	35	2

1.5 Storage Data

The A710 does not require special provisions for storage. Prior to storage, cap all connectors to keep out foreign material. Protect the unit from water, oil or salt spray, dirt, or other airborne contaminants. While it is desirable to store it in a habitable area, it may be stored under the temperature conditions shown in table 1-1, General Specifications.

1.6 Packing for Reshipment

- a. Verify that all material shown on the packing slip is on hand for shipment.
- b. Place protective covers on the electrical connectors.
- c. If the original shipping container is available, repack as received making sure that the four centering cushions are in place. If the original shipping container is not available, pack in a sturdy shipping container large enough to provide space for sufficient cushioning material on all six sides of the A710. If your A710 has a protrusion on the rear to accommodate a long (low frequency) TWT, block the chassis to prevent the TWT cover from coming in contact with the shipping container. Use reenforced tape or steel banding to prevent bursting of the container in the event of improper handling. Apply fragile or delicate instrument warning labels. Apply arrows showing, "This Side Up".