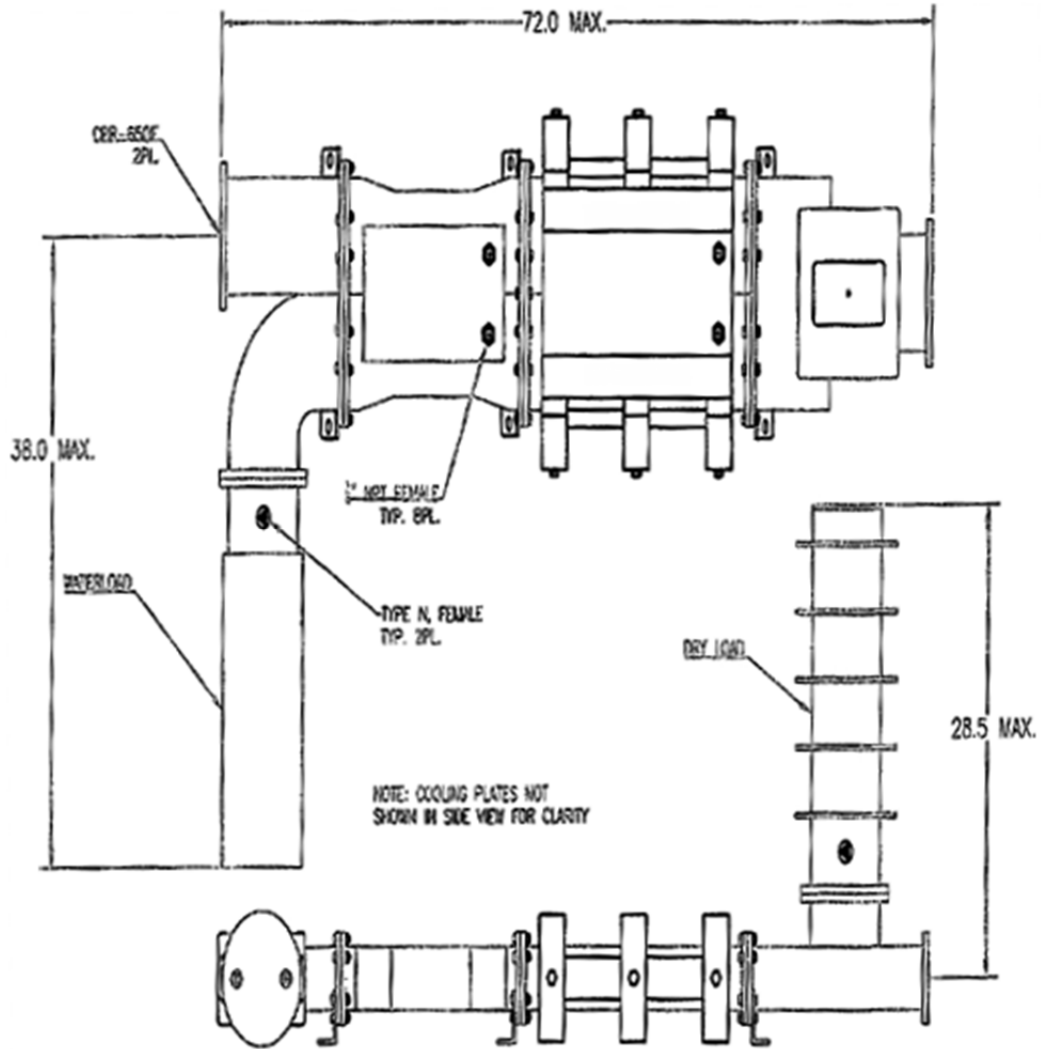


## Waveguide Isolator, 1286-1304MHz, Water Cooling WR650 package, 315kiloWatts Average, 5MegaWatts Peak



Units: mm  
Not to scale

Direction of RF:	
R	Default ▶
L	◀

Order Examples: **RADI-1286-1304M-WR650-315kWR** Avg-5MW Pk-WC-o  
**I=ISOLATOR**

## Waveguide Isolator, 1286-1304MHz, Water Cooling WR650 package, 315kiloWatts Average, 5MegaWatts Peak

Item	Specifications
1	Operating Frequency 1286 to 1304 MHz
2	Forward Peak Power 5MW
3	Forward Average Power 315 kW
4	Maximum Pulse Width 1.1 milliseconds
5	Maximum Duty 10%
6	Maximum Input VSWR 1.1 to 1 over the operational frequency range
7	Maximum Insertion Loss (port 1 to port 2) 0.3 dB over the operational frequency range
8	Isolation (port 2 to port 1) 25 dB minimum isolation over the operation frequency range
9	Maximum Load VSWR (continuous) 1.8:1 over all phases
10	Maximum Load VSWR (arc condition) Infinite VSWR for up to 10 microseconds
11	RF Loads Port 3 and Port 4 loads shall be provided by the vendor (see outline)
12	RF Load Monitoring ports Coupled ports to measure RF power to loads at port 3 and port 4 shall be provided.
13	Monitoring port RF connector type N type connectors
14	Operating Environment The isolator shall operate ambient temperatures within the range of 0 to 100 degrees F, and at all relative humidity levels in the range of 0 to 85% with no performance degradation
15	Cooling Water Cooling
16	Waveguide Type WR-650
17	Waveguide Flange CPR 650 Flat flange (UG-1720/U)
18	Pressurization The isolator shall be capable of operation at up to 15 PSIG internal pressurization.
19	Evacuation The isolator shall be constructed to allow repeated evacuation to less than 1 m Torr absolute pressure
20	Gas Fill If the isolator requires pressurized insulating gas, the gas shall be sulfur hexafluoride (SF6)
21	Construction Materials Manufacturer specified
22	Optical arc detection Optical ports for monitoring of waveguide arcs shall be provided. (customer to specify location)
23	Optical port connectors ESMA Y.i"-36 UNS-2A
24	Surface treatment All metal parts other than RF connectors shall be treated with chemical conversion coating compliant with MILSPEC MIL-DTL-5541 F, Type II, Classes 1 a and 3
25	Labelling The manufacturer name and model number shall be clearly labelled on the exterior of the isolator. All RF power coupling ports shall be clearly marked with coupling direction and coupling factor. Ports 1 through 4 shall be clearly marked
26	Warranty ≥1 year from final acceptance of product