

Thermex Microwave Components

THERMEX THERMATRON, LP manufactures many of the Microwave components for our Industrial Microwave Systems.

The Thermex™ Division of Thermex Thermatron, LP brings over 65 years of engineering and manufacturing superiority in industrial heating systems and its extensive line of microwave components.

Waveguide Components: WR-975, WR-430, WR-340 and WR-284

Straight Waveguides:

Starting at 8" flange to flange up to 8' in length, available in either EIA or British Flange. All flanges are machined after welding to reduce junction discontinuities.

Sweep Bends:

900, 450 and 300 E and H Bends series and shunt.

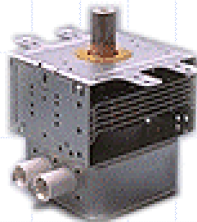
Water loads: WR-975, two-barrel (30 kW) and three-barrel (100 kW). Where minimal space is available, the VSWR < 1.15 for our two barrel and < 1.5 for the three barrel would be suitable. Water tubes are manufactured from Teflon for long life and durability.

Directional Couplers: Nominal values - Coupling 40 to 80db Directivity 30 db 8" waveguide minimum (call if specific coupling values are required).

Circulators: S-band, 3 to 30 kW L-band, 75 and 100 kW

Magnetrons:

S-band and L-band magnetrons up to 30 kW @ 2450 MHz and 100 kW @ 915 MHz.



Microwave System Components

Multi-stub Tuners:

Impedance changing device used to match the waveguide to the load. A three-stub tuner will remove up to a 1:1.5 VSWR mismatch over a limited bandwidth.

Microwave Calorimeter Tester: This unit is used to test the output power of a 915 MHz Microwave Power Source up to 100 kW. It is installed on the end of the waveguide at the output of the power source under test. A calibrated water load absorbs the microwave energy. The water flow as well as the input and output temperature of the water is measured and displayed accurately by three digital metering units. Based on the values displayed, the effective microwave energy generated by the power source can be calculated.

Microwave Generator Calibrator:

Thermex Model MW-CAL75 – This multipurpose testing equipment is used for conveniently testing and calibrating the following microwave generator devices and circuitry:

- Anode circuit continuity testing including anode overload relay, anode meter, anode shunt and metering circuit.
- Calibrating the anode Overload Relay and Magnet Undercurrent Relay.
- Calibrating the Anode Meter and its circuitry.
- Simulate load and set the filament turndown for the magnetron.
- Calibrate the signal conditioners, filament current and reflected power circuit.

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