



T-MM Series High Power Millimeter TWT Amplifiers

27.5 – 45.0 GHz • 40-500 watts, Minimum Rated Power

Instruments for Industry, T-MM Series Amplifiers provide outstanding RF performance. Our “T-MM Series” products are a mature design but incorporate the latest features with respect to control and monitoring. These amplifiers are “State of the Art”; have field proven reliability and unsurpassed performance as the best in the industry. These products are available in a wide range of power levels from 10 watts to 200 watts in various frequency bands that cover 27.5GHz-45.0GHz.

Operation safety and ease of use are paramount in IFI product designs. The IFI T-MM Series include a full complement of RF and hardware protection systems including high VSWR, over-current and voltage protection as well as redundant thermal and airflow sensors to prevent the TWT from overheating. In addition, the T-MM series includes a state-of-the-art interface that is sophisticated, comprehensive, but yet simple to use. Our amplifiers feature modular construction and this concept of modular design minimizes internally produced EMI signal leakage and provides easy access for field service and rapid turnaround at depot level repair facilities.

The backlit LCD screen shows forward/reverse power indication, system status and self-diagnostic information. All the amplifier operating parameters are simultaneously available in the amplifier front panel display as well as over the remote bus. Selection switches allow you to switch the amplifier to the desired mode of operation for local control if the unit is not being operated remotely.

For computer automation both an RS-232 and IEEE-488 interface are included. To meet individual application needs, the T-MM Series amplifiers can be easily customized with harmonic filters or other options. With this capability and its reliable elegant design, the T-MM series amplifiers are the perfect amplifier for your microwave needs. IFI offers different size packages and configurations to best suit your application. A product and design built to last!

IFI RF Power Amplifier Features:

- ∞ Instantaneous Broadband Frequency range
- ∞ Modular Design Construction
- ∞ Rugged Construction & High Reliability
- ∞ Backlit LCD Display
- ∞ Integrated Force Air Cooling
- ∞ Self-diagnostic circuitry
- ∞ IEEE-488 interface, RS232 & Ethernet Remote available
- ∞ Solid State Power Supply



Models & General Specifications:

Model Number	Frequency Range (GHz)	Rated Power (watts minimum)	P1dB Power (nominal)	Gain (dB min)	Mains (kVA)	Weight (Pounds)	Size (Inches)
T3027-120	27.5-30.0	120	60	51	1.0	45	5.25”H x 19”W x 24.00”D
T3027-150	27.5-30.0	150	75	52	1.2	45	5.25”H x 19”W x 24.00”D
T3027-250	27.5-30.0	250	125	54	1.5	75	8.75”H x 19”W x 25.25”D
T3127-250	27.5-31.0	250	125	54	1.5	75	8.75”H x 19”W x 25.25”D
T3127-400	27.5-31.0	400	200	56	3.5	180	14.0”H x 19”W x 25.25”D
T3832-40	32.0-38.0	40	20	46	0.8	45	5.25”H x 19”W x 24.00”D
T3832-60	32.0-38.0	60	30	48	0.9	45	5.25”H x 19”W x 24.00”D
T3832-80	32.0-38.0	80	40	49	1.0	50	5.25”H x 19”W x 24.00”D
T4540-70	40.0-45.0	70	30	49	1.5	80	10.5”H x 19”W x 25.25”D



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Standard Features for IFI T-MM Series TWT Amplifiers

Table with 2 columns: Standard Features and Description. Features include VSWR protection, remote control, RF ports, and safety interlocks.

Specifications:

Table with 2 columns: Specification and Value. Includes frequency range, output power, gain, impedance, and environmental conditions.

Standard Prime Powers:

Table listing standard prime power options: 100, 115, 120 VAC; 200, 220, 230, 240 VAC; and 100/200 VAC, 115/208 or 200/220/230/240 VAC.

Some Available Options for IFI T-MM Series TWT Amplifiers

Table listing optional features: Option 103 G/D (Graceful Degradation), Option 110-1E (Remote Control), Option 110-2 (Remote Control), Option 110-3 (Remote Control), Option 113 (Rack Mounting), Option 118F or R (RF Connections), and Option 123F or R (Sample Port).



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Outline Configurations:

