



T4026 Series Medium to High Power Millimeter TWT Amplifiers

26.5 – 40.0 GHz • 10-200 watts, Minimum Rated Power

Instruments for Industry, T4026 Series Amplifiers provide outstanding RF performance. Our “T4026 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 the 26.5GHz-40.0GHz frequency range.

Operation safety and ease of use are paramount in IFI product designs. The IFI T4026 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 T4026 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 T4026 Series amplifiers can be easily customized with harmonic filters or other options. With this capability and its reliable elegant design, the T4026 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)
T4026-10	26.5-40.0	10	8	40	0.7	45	5.25”H x 19”W x 24.00”D
T4026-25	26.5-40.0	25	10	44	0.8	45	5.25”H x 19”W x 24.00”D
T4026-40	26.5-40.0	40	20	46	0.9	45	5.25”H x 19”W x 24.00”D
T4026-50	26.5-40.0	50	25	47	1.0	45	5.25”H x 19”W x 24.00”D
T4026-80	26.5-40.0	80	35	49	1.8	80	14.0”H x 19”W x 25.25”D
T4026-100	26.5-40.0	100	45	50	1.9	90	14.0”H x 19”W x 25.25”D
T4026-125	26.5-40.0	125	50	52	2.0	100	14.0”H x 19”W x 25.25”D
T4026-200	26.5-40.0	200	100	53	3.5	200	2x 14.0”H x 19”W x 27.00”D



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Standard Features for IFI T4026 Series TWT Amplifiers

Table with 2 columns: Standard Features and Description. Features include VSWR protection, remote control, sample ports, pre-amplification, connectors, diagnostics, and safety interlocks.

Specifications:

Table with 2 columns: Specification and Value. Includes frequency range, output power, gain, impedance, connectors, VSWR, operating conditions, and modulation details.

Standard Prime Powers:

Table with 2 columns: Prime Power and Description. Lists voltage and phase requirements for standard and special prime powers.

Some Available Options for IFI T4026 Series TWT Amplifiers

Table with 2 columns: Option and Description. Lists options like graceful degradation, remote control, rack mounting, and sample ports.



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Outline Configurations:

