



## T4026 Series



Instruments for Industry, T4026 Series Amplifiers provide outstanding RF performance and incorporate the latest features with respect to control and monitoring. These amplifiers have field proven reliability and are available in a wide range of power levels from 25 watts to 200 watts in the 26.0 GHz – 40.0 GHz frequency range.

Operation safety and ease of use are paramount in IFI product designs. The 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 touch screen 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 touch screen interface shows forward/reverse power indication, system status and self-diagnostic information. All the amplifier operating parameters are simultaneously available via the amplifier interface as well as over the remote bus. Selection controls allow you to switch the amplifier to the desired mode of operation for local control if the unit is not being operated remotely. For remote operation GPIB, RS232, USB & Ethernet remote interfaces are included as standard. 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!

### MAIN FEATURES

- Intuitive user interface
- Rugged Modular Design Construction
- USB, Ethernet, GPIB and RS232 interface
- 3 year warranty (1 Year on the tube)
- Solid State Power Supply

### Models & General Specifications

Model Number	Frequency Range	Rated Power	Gain	Mains Power	Weight	Size
T4026-100	26.5 GHz - 40 GHz	100 W	50 dB	1.9 kVA	40 kg	19 inch, 8U Rack Case, 680 mm Deep
T4026-200		200 W	53 dB	3.5 kVA	90 kg	Rack Intagrated
T4026-25		25 W	44 dB	0.8 kVA	20 kg	19 inch, 3U Rack Case, 680 mm Deep
T4026-40		40 W	46 dB	0.9 kVA	20 kg	
T4026-50		50 W	47 dB	1 kVA	20 kg	



**RF Specifications**

Modulation Formats	AM, FM Pulse
Output VSWR Tolerance	< 3:1, Infinite any phase > 3.1 Safety Trip)
Stability	Unconditional
Output Impedance	50 Ohm
Input VSWR	2.0:1
Output VSWR	2.5:1
Spurious (typ.)	50 dBc

**General Specifications**

Safety Interlock	Via rear panel mounted BNC-female
Supply Voltage	< 3KVA Single Phase 90 to 264 VAC, > 3KVA Three Phase, 5 Wire STAR, 380 to 415 VAC / 4 Wire Delta, 208 to 240 VAC
Supply Frequency	47 to 63 Hz
RF Input Connector	Type K
RF Output Connector	WR42
Com. Interface	GPIB, RS232, Ethernet & USB
Cooling System	Air Cooled, Self-contained
Available Options	Option 129, VSWR Reflected Power Protection "Graceful Degradation" which will automatically reduce the input drive and foldback the output power when the average reflected exceeds a preset limit of 3:1 Option 118R, RF Panel RF Connectors Option 118F, Front Panel Reflected RF Sample Port, -40, -50, -60 dB Option 118R, Rear Panel Reflected RF Sample Port, -40, -50, -60 dB Option 129, Harmonic Filter mounted either internally, externally or separate chassis mounted. (amplifier variant dependent)

**Available Products**

Product	Description
T4026-100	26.5 to 40.0 GHz TWT Microwave Power Amplifier, 100 W
T4026-200	26.5 to 40.0 GHz TWT Microwave Power Amplifier, 200 W
T4026-25	26.5 to 40.0 GHz TWT Microwave Power Amplifier, 25 W
T4026-40	26.5 to 40.0 GHz TWT Microwave Power Amplifier, 40 W
T4026-50	26.5 to 40.0 GHz TWT Microwave Power Amplifier, 50 W