



ML Series



RF/Microwave Amplifiers

MAIN FEATURES

- Simple to Use
- High reliability LDMOS Design
- Modular Design Construction
- Rugged Construction & High Reliability
- 3 Year Warranty

Favouring a simple on/off switch, no interface or built in directional coupler the Instruments for Industry, ML Basic Series solid state amplifiers provide outstanding RF performance. Operating over the frequency range from 10 KHz to 100 MHz and can be supplied at power levels up to 200 watts. From the ground up, the ML Series amplifiers are built to withstand rugged handling, whether it's being shipped to you or hauled around from site to site.

IFI RF amplifiers are very conservatively designed to operate below maximum ratings for ruggedness and long-term reliability. Sixth generation LDMOS transistors provide reliable brute power performance at frequencies up to 100 MHz.

Our RF power amplifiers feature individually shielded assemblies for the module level. This concept of shielded modular design minimises internally produced EMI signal leakage and provides easy access for field service and rapid turnaround at depot level repair facilities.

From the ground up, the ML Basic Series products are structurally engineered to withstand operation in mechanically hostile environments. Ruggedized versions are available for applications that will be exposed to very harsh environments

Models & General Specifications

Model Number	Frequency Range	Rated Power	P1dB Power	Gain	Mains Power	Weight	Size
ML10	10 kHz - 100 MHz	10 W	10 W	40 dB	0.1 kVA	12 kg	19 inch, 3U Rack Case, 680 mm Deep
ML100		100 W	80 W	50 dB	1 kVA	23 kg	
ML150		150 W	120 W	52 dB	1.5 kVA	35 kg	
ML200		200 W	160 W	53 dB	2 kVA	40 kg	
ML25		25 W	20 W	44 dB	0.15 kVA	14 kg	
ML50		50 W	40 W	47 dB	0.5 kVA	15 kg	
ML75		75 W	65 W	58 dB	0.8 kVA	18 kg	



RF Specifications

Gain Variation (max) \pm	+/- 3.0 dB
Harmonics @ P1dB	-20 dBc
Spurious (min.)	-60 dBc
Modulation Formats	AM, FM, Pulse
Output VSWR Tolerance	Infinite any phase (< 4:1 no foldback, > 4:1 gradual foldback)
Stability	Unconditional
Output Impedance	50 Ohm
Input VSWR	2:1 (max)
Output VSWR	2.5:1 (max)
Spurious	-70 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 N female
RF Output Connector	Type N Female
Cooling System	Air Cooled, Self-contained

Available Models

Product	Description
ML10	10 KHz to 100 MHz 10W Broadband Power Amplifier
ML100	10 KHz to 100 MHz 100W Broadband Power Amplifier
ML150	10 KHz to 100 MHz 150W Broadband Power Amplifier
ML200	10 KHz to 100 MHz 200W Broadband Power Amplifier
ML25	10 KHz to 100 MHz 25W Broadband Power Amplifier
ML50	10 KHz to 100 MHz 50W Broadband Power Amplifier
ML75	10 KHz to 100 MHz 75W Broadband Power Amplifier