



SMXE-2G Series Solid State Amplifiers

10KHz – 2.0GHz • 10 Watts to 200 Watts Minimum Rated Power

Instruments for Industry, SMXE-2G Series Amplifiers provide outstanding RF performance. These products are available in a wide range of power levels from 10 watts to 200 watts in the 10KHz – 2.0GHz frequency range.

These state-of-the-art solid-state power amplifiers are specifically designed for laboratory and all testing applications.

IFI RF amplifiers are very conservatively designed to operate below maximum ratings for ruggedness and long term reliability. Sixth generation LDMOS & GAN Transistors provide reliable brute-power performance at frequencies up to 2.0GHz.

Our RF power amplifiers feature individually shielded aluminum assemblies for the module level. This concept of a shielded modular design minimizes 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 “SMXE-2G 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.

Features

- Solid State Design
- Rugged Construction & High Reliability
- Instantaneous Broadband Frequency range
- Backlit screen
- Modular Design Construction
- Integrated Force Air Cooling
- Self-diagnostic circuitry
- IEEE-488 interface & RS232 Remote



Models & General Specifications

Model Number	Frequency Range	Rated Power (Watts) Minimum	P1dB Power Watts Minimum	Gain (dB) Minimum	KVA	Weight In Pounds	Size In Inches
SMXE-2G-10	10KHz-2.0GHz	10	10	40	.1KVA	35 Lbs	7.00” H x 19” W x 24” D
SMXE-2G-25	10KHz-2.0GHz	25	20	44	.2KVA	40 Lbs	7.00” H x 19” W x 24” D
SMXE-2G-50	10KHz-2.0GHz	50	40	47	.4KVA	75 Lbs	7.00” H x 19” W x 24” D
SMXE-2G-100	10KHz-2.0GHz	100	60	50	.8KVA	80 Lbs	10.5” H x 19” W x 25.12” D
SMXE-2G-150	10KHz-2.0GHz	150	100	52	1.0KVA	120 Lbs	10.5” H x 19” W x 25.12” D
SMXE-2G-200	10KHz-2.0GHz	200	150	53	1.5KVA	150 Lbs	2x 10.5” H x 19” W x 25.12” D



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Standard Features for IFI SMXE-2G Series Solid State Amplifiers

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

IFI SMXE-2G Series Solid State Amplifier Specifications

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

Standard Prime Powers:

Table listing standard prime power options: 100, 115, 120 VAC; 220, 230, 240 VAC; and three-phase options.

Some Available Options for IFI SMXE-2G Series Solid State Amplifiers

Table listing optional features: remote control options (110-1E, 110-2, 110-3), rack mounting (113), and RF input/output configurations (118A, 118B).



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Outline Configurations:

