



SMC Solid State Amplifiers

80 – 1000 MHz • 10 Watts to 3000 Watts, Minimum Rated Power

Instruments for Industry, SMC-Series Amplifiers provide outstanding RF performance. These products are available in a wide range of power levels from 10 watts to 3000 watts in the 80 – 1000MHz 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 LD MOS Transistors provide reliable brute-power performance at frequencies up to 1000MHz.

Our RF power amplifiers feature heavy-duty individually shielded aluminum housings at 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 “SMC-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 (MHz)	Rated Power (Watts) Minimum	P1dB Power Watts Minimum	Gain (dB) Minimum	KVA	Weight In Pounds	Size In Inches
SMC10	80-1000	10	10	40	.1KVA	25 Lbs	5.25" H x 19" W x 24" D
SMC25	80-1000	25	25	44	.2KVA	30 Lbs	5.25" H x 19" W x 24" D
SMC50	80-1000	50	50	47	.4KVA	45 Lbs	7.0" H x 19" W x 25" D
SMC100	80-1000	100	80	50	.5KVA	60 Lbs	7.0" H x 19" W x 25" D
SMC150	80-1000	150	120	52	.8KVA	75 Lbs	8.75" H x 19" W x 24" D
SMC200	80-1000	200	160	53	1.4KVA	120 Lbs	8.75" H x 19" W x 24" D
SMC250	80-1000	250	200	54	1.6KVA	140 Lbs	10.5" H x 19" W x 25.25" D
SMC350	80-1000	350	250	56	3.0KVA	160 Lbs	10.5" H x 19" W x 25.25" D
SMC500	80-1000	500	350	57	4.0KVA	200 Lbs	2x 10.5" H x 19" W x 25.25" D
SMC750	80-1000	750	600	59	6.0KVA	250 Lbs	2x 10.5" H x 19" W x 25.25" D
SMC1000	80-1000	1000	800	60	8.0KVA	500 Lbs	Rack Integrated
SMC2000	80-1000	2000	1500	63	15.0KVA	1000 Lbs	Rack Integrated
SMC2500	80-1000	2500	1800	64	20.0KVA	1500 Lbs	Rack Integrated
SMC3000	80-1000	3000	2500	65	25.0KVA	2000 Lbs	Rack Integrated



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Standard Features for IFI SMC Solid State Series Amplifiers

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

IFI SMC Solid State Series Amplifier Specifications

Table with 2 columns: Specification and Value. Includes frequency range, rated output power, gain, 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 SMC Solid State Series Amplifiers

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



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Outline Configurations:



