



# SMC Series 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 LDMOS 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.

### IFI Amplifier 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

For full data sheets, go to [www.ifi.com](http://www.ifi.com)



### MODELS AND GENERAL SPECIFICATIONS:

MODEL NUMBER	FREQUENCY RANGE (MHZ)	RATED POWER (WATTS)		P1DB POWER WATTS MINIMUM	GAIN (DB) MINIMUM	KVA	WEIGHT	SIZE IN INCHES
		MINIMUM					IN POUNDS	
SMC10	80 - 1000	10		10	40	0.1 KVA	25 LBS	5.25" H X 19" W X 24" D
SMC25	80 - 1000	25		25	44	0.2 KVA	30 LBS	5.25" H X 19" W X 24" D
SMC50	80 - 1000	50		50	47	0.4 KVA	45 LBS	5.25" H X 19" W X 24" D
SMC100	80 - 1000	100		80	50	0.5 KVA	60 LBS	5.25" H X 19" W X 24" D
SMC150	80 - 1000	150		120	52	0.8 KVA	75 LBS	5.25" H X 19" W X 24" D
SMC200	80 - 1000	200		160	53	1.4 KVA	75 LBS	5.25" H X 19" W X 24" D
SMC250	80 - 1000	250		200	54	1.6 KVA	80 LBS	7" H X 19" W X 25.25" D
SMC350	80 - 1000	350		250	56	3.0 KVA	80 LBS	7" H X 19" W X 25.25" D
SMC500	80 - 1000	500		350	57	4.0 KVA	100 LBS	10.5" H X 19" W X 25.25" D
SMC750	80 - 1000	750		600	59	6.0 KVA	100 LBS	10.5" H X 19" W X 25.25" D
SMC1000	80 - 1000	1000		800	60	8.0 KVA	100 LBS	10.5" H X 19" W X 27" D
SMC1500	80 - 1000	1500		1500	63	15.0 KVA	200 LBS	17.5" H X 19" W X 27" D
SMC2000	80 - 1000	2000		1800	64	20.0 KVA	200 LBS	17.5" H X 19" W X 27" D
SMC3000	80 - 1000	3000		2500	65	25.0 KVA	200 LBS	RACK INTEGRATED