

SMC Series



MAIN FEATURES

- Intuitive user interface
- Rugged Modular Design Construction
- USB, Ethernet, GPIB and RS232 interface
- Built in Calibrated Directional Coupler
- 3 year warranty

Instruments for Industry, SMC Series Solid State amplifiers provide outstanding RF performance. Operating over the fre-quency range from 80 MHz to 1.0 GHz and can be supplied at power levels up to 1500 watts offering all the control and communication features needed for today's automated test systems. From the ground up, the SMC Series amplifiers are built to withstand rugged handling, whether it's being shipped to you or hauled around from site to site.

Operation safety and ease of use are paramount in IFI product designs. The IFI SMC Series include a full complement of RF and hardware protection circuits including high VSWR, over-current, voltage protection, redundant thermal and airflow sensors for the module and system level. In addition, the SMC series includes an intuitive interface that is sophisticated, comprehensive, and yet simple to use. The color interface displays forward/reverse power indication, system status and self-diagnostic information. All the amplifiers operating parameters are simultaneously available via the interface as well as over the remote bus. Selection via the interface allow you to switch the ampli-fier to the desired mode of operation for local control if the unit is not being operated remotely.

For remote control operation USB, Ethernet, GPIB and RS232 interface are provided as standard. To meet individual application needs, the SMC Series amplifiers can be easily customized with other options. With this capability and its reliable design, the SMC series amplifiers are the perfect system for your applications.

Models & General Specifications

Model Number	Frequency Range	Rated Power	P1dB Power	Gain	Mains Power	Weight	Size
SMC10	80 MHz -	10 W	10 W	40 dB	0.1 kVA	12 kg	19 inch, 3U Rack Case, 680 mm Deep
SMC100	1 GHz	100 W	80 W	50 dB	0.9 kVA	28 kg	19 inch, 4U Rack Case, 680 mm Deep
SMC1200	1 GHZ	1200 W	1500 W	63 dB	7 kVA	99 kg	19 inch, 20U Rack, 1000mm Deep
SMC150		150 W	120 W	52 dB	1.5 kVA	35 kg	19 inch, 4U Rack Case, 680 mm Deep
SMC1500		1500 W	1800 W	64 dB	8 kVA	102 kg	19 inch, 20U Rack, 1000mm Deep
SMC200		200 W	160 W	53 dB	2.1 kVA	25 kg	19 inch, 4U Rack Case, 680 mm Deep
SMC25		25 W	25 W	44 dB	0.26 kVA	14 kg	19 inch, 3U Rack Case, 680 mm Deep
SMC300		300 W	250 W	54 dB	2.8 kVA	29 kg	19 inch, 4U Rack Case, 680 mm Deep
SMC50		50 W	50 W	47 dB	0.65 kVA	21 kg	
SMC500		500 W	350 W	57 dB	4 kVA	55 kg	19 inch, 16U Rack, 1000 mm Deep
SMC800					5.1 kVA	60 kg	19 inch, 6U Rack Case, 680 mm Deep





RF Specifications

Gain Variation (max) ±	+/- 3.0 dB		
Harmonics P1dB	-20 dBc		
Modulation Formats	AM, FM, Pulse		
Gain Control	0-30 dB in 255 Steps		
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 (min.)	-60 dBc		
Spurious (typ.)	-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 or 7/16 Female
Com. Interface	GPIB, RS232, Ethernet & USB
Cooling System	Air Cooled, Self-contained

Available Models

Product	Description
SMC10	80 MHz to 1 GHz 10W Broadband Power Amplifier
SMC100	80 MHz to 1 GHz 100W Broadband Power Amplifier
SMC1200	80 MHz to 1 GHz 1200W Broadband Power Amplifier
SMC150	80 MHz to 1 GHz 150W Broadband Power Amplifier
SMC1500	80 MHz to 1 GHz 1500W Broadband Power Amplifier
SMC200	80 MHz to 1 GHz 200W Broadband Power Amplifier
SMC25	80 MHz to 1 GHz 25W Broadband Power Amplifier
SMC300	80 MHz to 1 GHz 300W Broadband Power Amplifier
SMC50	80 MHz to 1 GHz 50W Broadband Power Amplifier
SMC500	80 MHz to 1 GHz 500W Broadband Power Amplifier
SMC800	80 MHz to 1 GHz 800W Broadband Power Amplifier

