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SMCC Series

Instruments for Industry, SMCC Series Solid State amplifiers provide outstanding RF performance. Operating over the fre¬quency range from 200 MHz to 1.0 GHz and can be supplied at power levels up to 2000 watts offering all the control and communication features needed for today's automated test systems. From the ground up, the SMCC 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 SMCC 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 SMCC 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 amplifier 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 SMCC Series amplifiers can be easily customized with other options. With this capability and its reliable design, the SMCC series amplifiers are the perfect system for your applications.

MAIN FEATURES

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

Models & General Specifications

Model Number	Frequency Range	Rated Power	P1dB Power	Gain	Mains Power	Weight	Size
SMCC100	200 MHz - 1 GHz	100 W	80 W	50 dB	0.9 kVA	12 kg	19 inch, 4U Rack Case, 642 mm Deep
SMCC1000		1000 W	800 W	60 dB	7 kVA	99 kg	19 inch, 10U Rack Case, 686 mm Deep
SMCC150		150 W	120 W	52 dB	1.6 kVA	35 kg	19 inch, 4U Rack Case, 642 mm Deep
SMCC1500		1500 W			8 kVA	102 kg	19 inch, 10U Rack Case, 686 mm Deep
SMCC2000		2000 W	1500 W	63 dB	14 kVA	204 kg	19 inch, 20U Rack, 1000mm Deep
SMCC25		25 W	25 W	44 dB	0.26 kVA	14 kg	19 inch, 3U Rack Case, 680 mm Deep
SMCC250		250 W	200 W	54 dB	2.4 kVA	29 kg	19 inch, 4U Rack Case, 680 mm Deep
SMCC350		350 W	250 W	56 dB	2.9 kVA	31 kg	
SMCC50		50 W	50 W	47 dB	0.64 kVA	21 kg	
SMCC500		500 W	350 W	57 dB	4 kVA	55 kg	19 inch, 6U Rack Case, 680 mm Deep
SMCC600					5.1 kVA	58 kg	
SMCC800					6 kVA	60 kg	

RF Specifications

Gain Variation (max) ±	+/- 3.0 dB
Harmonics @ P1dB	-20 dBc
Spurious (min.)	-60 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	-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
SMCC100	200 MHz to 1 GHz 100W Broadband Power Amplifier
SMCC1000	200 MHz to 1 GHz 1000W Broadband Power Amplifier
SMCC150	200 MHz to 1 GHz 150W Broadband Power Amplifier
SMCC1500	200 MHz to 1 GHz 1500W Broadband Power Amplifier
SMCC2000	200 MHz to 1 GHz 2000W Broadband Power Amplifier
SMCC25	200 MHz to 1 GHz 25W Broadband Power Amplifier
SMCC250	200 MHz to 1 GHz 250W Broadband Power Amplifier
SMCC350	200 MHz to 1 GHz 350W Broadband Power Amplifier
SMCC50	200 MHz to 1 GHz 50W Broadband Power Amplifier
SMCC500	200 MHz to 1 GHz 500W Broadband Power Amplifier
SMCC600	200 MHz to 1 GHz 600W Broadband Power Amplifier
SMCC800	200 MHz to 1 GHz 800W Broadband Power Amplifier