SCDX Solid State RF Power Amplifiers

10 KHz - 400 MHz • 10 to 500 watts, Minimum Rated Power

Instruments for Industry, SCDX-Series Amplifiers provide outstanding RF performance. These products are available in a wide range of power levels from 10 watts to 500 watts in the 10KHz - 400MHz 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 400MHz.

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 "SCDX-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	Frequency	Rated Power	P1dB Power	Gain (dB)	KVA	Weight	Size
Number	Range (MHz)	(Watts) Minimum	Watts Minimum	Minimum		In Pounds	In Inches
SCDX10	10KHz - 400MHz	10	10	40	.1KVA	40 Lbs	5.25" H x 19" W x 24" D
SCDX25	10KHz - 400MHz	25	25	44	.2KVA	45 Lbs	5.25" H x 19" W x 24" D
SCDX50	10KHz - 400MHz	50	50	47	.4KVA	50 Lbs	5.25" H x 19" W x 24" D
SCDX100	10KHz - 400MHz	100	80	50	.5KVA	60 Lbs	5.25" H x 19" W x 24" D
SCDX150	10KHz - 400MHz	150	100	52	.8KVA	70 Lbs	7.00" H x 19" W x 24" D
SCDX200	10KHz - 400MHz	200	160	53	1.5KVA	120 Lbs	14.0" H x 19" W x 27" D
SCDX250	10KHz -400MHz	250	200	54	2.0KVA	160 Lbs	2x 10.5" H x 19" W x 27" D
SCDX350	10KHz - 400MHz	350	280	56	2.5KVA	180 Lbs	2x 10.5" H x 19" W x 27" D
SCDX500	10KHz - 400MHz	500	300	57	3.0KVA	200 Lbs	2x 10.5" H x 19" W x 27" D

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The Power Of Choice

SCDX Solid State RF Power Amplifiers

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Standard Features: VSWR Reflected Power Protection, the unit operates without damage or oscillation into any magnitude of phase or load impedance, Open & Short Circuit Protection.

* Alternate Prime Power (specify at time of order)

GPIB IEEE 488 & RS232 Remote Control

RF Sample Port on the Front Panel, 112R for rear panel

Internal Pre-amplification to obtain rated output power with an input level of 0 dBm or less.

Gain Control Local & Remote, 30dB range

RF Input/Output Connectors on the Front Panel, 118R for rear panel

Internal Systems Diagnostics & Status Indicators
Total/Operate Floraged Time Metering in house

Total/Operate Elapsed Time Metering in hours

RF Safety Interlock

Forward/Reflected Power Indication simultaneously on Front Panel display

IFI SCDX-Series Solid State Amplifier Specifications					
Frequency Range:	As Specified in Model Table				
Rated Output Power:	As Specified in Model Table				
Gain @ Rated Power:	As Specified in Model Table				
Prime Power:	As Required (Some are listed below)				
Input/output Impedance:	50 ohms				
RF Input/ Sample Connectors:	Type N Female, unless specified otherwise				
RF Output Connector:	Type N Female				
	Other connectors available by request or specification				
Input VSWR:	2.0:1				
Output VSWR:	2.5:1				
Operating Temp:	0° to 50° C				
Non-operating Temp:	-40° to 70° C (50,000 feet max)				
Humidity:	95% without condensation				
Altitude:	10,000 feet				
Cooling System:	Air cooled, self-contained				
Modulation:	AM,FM, Pulse				
Configuration:	Rack Mount as specified in Model Table, or Rack/Cabinet Integrated				
Spurious Outputs:	<-60 dBc nominal				
Harmonics:	-20dBc minimum @ Linear Power				

Standard Prime Powers:

100, 115, 120 VAC ±10% 50/60 Hz, single phase

220, 230, 240VAC ±10% 50/60 Hz, single phase

 $100/110/1115/120 \pm 10\%$ 50/60 Hz, three phase Wye or Delta power is available

200/220/230/240VAC $\pm 10\%$ 50/60 Hz, three phase Wye or Delta power is available

Special Prime Powers other then listed are subject to availability

Some Available Options for IFI SCDX-Series Solid State Amplifiers				
Option 110-1E:	GPIB IEEE-488 RS232 and Ethernet Remote Control			
Option 110-2:	GPIB IEEE-488 and RS 422 Remote Control			
Option 110-3	GPIB IEEE-488 and RS 485 Remote Control			
Option 113:	Chassis slides for a 19" rack mounting			
Option 118A:	RF Input On Front Output On Rear			
Option 118B:	RF Input On Rear Output On Front			

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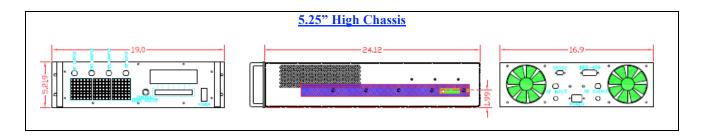
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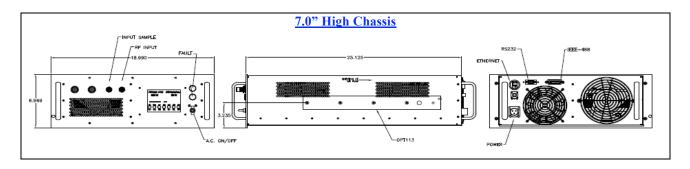
The Power Of Choice

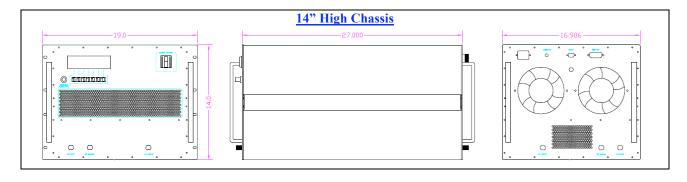
SCDX Solid State RF Power Amplifiers

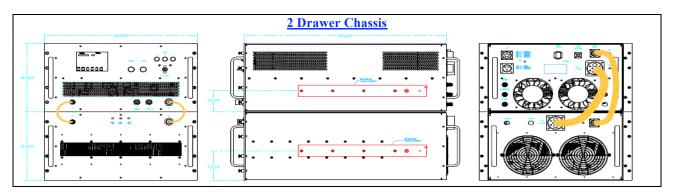
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Outline Configurations:









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