



S2505 Series



Instruments for Industry, S2505 Series Solid State amplifiers provide outstanding RF performance. Operating over the frequency range from 0.5 GHz to 2.5 GHz and can be supplied at power levels up to 1000 watts offering all the control and communication features needed for today's automated test systems. From the ground up, the S2505 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 S2505 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 S2505 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 S2505 Series amplifiers can be easily customized with other options. With this capability and its reliable design, the S2505 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
S2505-100	0.5 GHz - 2.5 GHz	100 W	80 W	50 dB	0.8 kVA	28 kg	19 inch, 3U Rack Case, 680 mm Deep
S2505-1000		1000 W	800 W	60 dB	1.4 kVA	23 kg	
S2505-200		200 W	150 W	53 dB	1.5 kVA	41 kg	
S2505-400		400 W	300 W	56 dB	3 kVA	114 kg	19 inch, 6U Rack Case, 680 mm Deep
S2505-50		50 W	40 W	47 dB	0.4 kVA	23 kg	19 inch, 3U Rack Case, 680 mm Deep
S2505-500		500 W	400 W	57 dB	3 kVA	125 kg	19 inch, 6U Rack Case, 680 mm Deep



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
S2505-100	500 MHz to 2.5 GHz 100W Broadband Power Amplifier
S2505-1000	500 MHz to 2.5 GHz 1000W Broadband Power Amplifier
S2505-200	500 MHz to 2.5 GHz 200W Broadband Power Amplifier
S2505-400	500 MHz to 2.5 GHz 400W Broadband Power Amplifier
S2505-50	500 MHz to 2.5 GHz 50W Broadband Power Amplifier
S2505-500	500 MHz to 2.5 GHz 500W Broadband Power Amplifier