

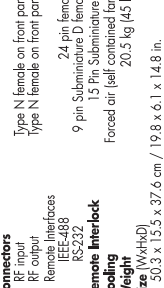
0.8 to 4.2 GHz

1051G4A Solid State Amplifier



10 watts, 0.8-4.2 GHz CW

Rated Power Output 10 watts min, 1 milliwatt max.
Input For Rated Output
Power Output @ 3dB compression Nominal 18 watts / min. 13 watts
Power Output @ 1dB compression Nominal 16 watts / min. 10 watts
Flattness ±1.5dB typ. / ±2dB max.
Frequency Response 0.8 - 4.2 GHz instantaneously
Gain (at max. setting) 40dB min.
Gain Adjustment (continuous range) 10dB min. (4096 steps remove)
Input Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance 30 ohms, nominal
 100% of rated power without feedback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. (See Application Note #27)
Third Order Intercept Point Minus 20dBc max. at 10 watts
Primary Power (selected automatically) 50/60 Hz, single phase
Remotes Interfaces EEE-488, RS-232
Connectors Type N female on front panel
RF input Type N female on front panel
RF output 24 pin Subminiature D female
Remote Interfaces 15 Pin Subminiature D female
RF output Forced air (self contained fans)
Weight 20.3 kg (45 lb)
Cooling Forced air (self contained fans)
Safety Interlock 30.3 x 15.5 x 37.6 cm / 19.8 x 6.1 x 14.8 in.
Size (WxHxD)
Weight 20.3 kg (45 lb)

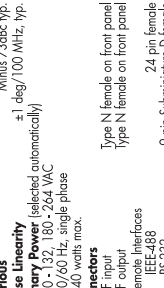


2551G4A Solid State Amplifier



25 watts, 0.8-4.2 GHz CW

Rated Power Output 25 watts min, 1 milliwatt max.
Input For Rated Output
Power Output @ 3dB compression Nominal 32 watts / min. 25 watts
Power Output @ 1dB compression Nominal 27 watts / min. 20 watts
Flattness ±1.5dB typ. / ±2dB max.
Frequency Response 0.8 - 4.2 GHz instantaneously
Gain (at max. setting) 44dB min.
Gain Adjustment (continuous range) 10dB min. (4096 steps remove)
Input Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance 30 ohms, nominal
 100% of rated power without feedback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. (See Application Note #27)
Third Order Intercept Point Minus 20dBc max. at 20 watts
Primary Power (selected automatically) 50/60 Hz, single phase
Remotes Interfaces EEE-488, RS-232
Connectors Type N female on front panel
RF input Type N female on front panel
RF output 24 pin Subminiature D female
Remote Interfaces 15 Pin Subminiature D female
RF output Forced air (self contained fans)
Weight 35 kg (77 lb)
Cooling Forced air (self contained fans)
Safety Interlock 50.3 x 20.3 x 54.6 cm / 19.8 x 8 x 21.5 in.
Size (WxHxD)
Weight 35 kg (77 lb)

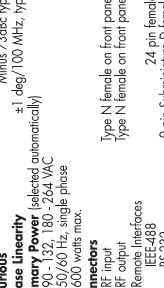


5051G4A Solid State Amplifier



50 watts, 0.8-4.2 GHz CW

Rated Power Output 50 watts min, 1 milliwatt max.
Input For Rated Output
Power Output @ 3dB compression Nominal 70 watts / min. 50 watts
Power Output @ 1dB compression Nominal 60 watts / min. 40 watts
Flattness ±1.5dB typ. / ±2dB max.
Frequency Response 0.8 - 4.2 GHz instantaneously
Gain (at max. setting) 47dB min.
Gain Adjustment (continuous range) 10dB min. (4096 steps remove)
Input Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance 30 ohms, nominal
 100% of rated power without feedback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. (See Application Note #27)
Third Order Intercept Point Minus 20dBc max. at 50 watts
Primary Power (selected automatically) 50/60 Hz, single phase
Remotes Interfaces EEE-488, RS-232
Connectors Type N female on front panel
RF input Type N female on front panel
RF output 24 pin Subminiature D female
Remote Interfaces 15 Pin Subminiature D female
RF output Forced air (self contained fans)
Weight 45 kg (100 lb)
Cooling Forced air (self contained fans)
Safety Interlock 50.3 x 24.9 x 54.6 cm / 19.8 x 9.8 x 21.5 in.
Size (WxHxD)
Weight 45 kg (100 lb)

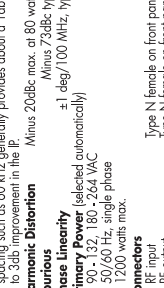


10051G4 Solid State Amplifier



100 watts, 0.8-4.2 GHz CW

Rated Power Output 100 watts min, 1 milliwatt max.
Input For Rated Output
Power Output @ 3dB compression Nominal 120 watts / min. 90 watts
Power Output @ 1dB compression Nominal 100 watts / min. 70 watts
Flattness ±1.5dB typ. / ±2dB max. / ±1dB with Internal Leveling
Frequency Response 0.8 - 4.2 GHz instantaneously
Gain (at max. setting) 50dB min.
Gain Adjustment (continuous range) 15dB min. (4096 steps remove)
Input Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance 30 ohms, nominal / VSWR 2.0:1 max.
 100% of rated power without feedback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. (See Application Note #27)
Third Order Intercept Point Minus 20dBc max. at 200 watts
Primary Power 120 - 240 VAC
Connectors Type N female on front panel
RF input Type N female on front panel
RF output Type BNC female on front panel
External leveling inputs Type BNC female on front panel
Pulse Modulation input Type BNC female on front panel
Detected RF output Type BNC female on front panel
Remote computer interfaces ST Comm. Tx and Rx, RS-232
Remotes Computer Interfaces ST Comm. Tx and Rx, RS-232
Operate Interface 25 pin Subminiature D on rear panel
Safety Interlock 15 pin female Subminiature D on rear panel
Cooling Forced air (self contained fans)
Weight 172.4 kg (380 lb)
Size (WxHxD) 56.1 x 109 x 67.1 cm / 22.1 x 43 x 26.4 in.
Weight 172.4 kg (380 lb)

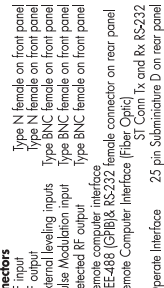


20051G4A Solid State Amplifier



200 watts, 0.8-4.2 GHz CW

Rated Power Output 200 watts min, 1 milliwatt max.
Input For Rated Output
Power Output @ 3dB compression Nominal 230 watts / min. 180 watts
Power Output @ 1dB compression Nominal 210 watts / min. 160 watts
Flattness ±2.5dB max. / ±1dB with Internal Leveling
Frequency Response 0.8 - 4.2 GHz instantaneously
Gain (at max. setting) 53dB min.
Gain Adjustment 50 ohms, VSWR 2.0:1 max.
Input Impedance 50 ohms, VSWR 2.5:1 max.
Mismatch Tolerance 30 ohms, VSWR 2.5:1 max.
 100% of rated power without feedback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. (See Application Note #27)
Third Order Intercept Point Minus 20dBc max. at 200 watts
Primary Power 120 - 240 VAC
Connectors Type N female on front panel
RF input Type N female on front panel
RF output Type BNC female on front panel
External leveling inputs Type BNC female on front panel
Pulse Modulation input Type BNC female on front panel
Detected RF output Type BNC female on front panel
Remote computer interfaces ST Comm. Tx and Rx, RS-232
Remotes Computer Interfaces ST Comm. Tx and Rx, RS-232
Operate Interface 25 pin Subminiature D on rear panel
Safety Interlock 15 pin female Subminiature D on rear panel
Cooling Forced air (self contained fans)
Weight 172.4 kg (380 lb)
Size (WxHxD) 56.1 x 109 x 67.1 cm / 22.1 x 43 x 26.4 in.
Weight 172.4 kg (380 lb)



40051G4 Solid State Amplifier



375 watts, 0.8-4.2 GHz CW

Rated Power Output 375 watts min, 1 milliwatt max.
Input For Rated Output
Power Output @ 3dB compression Nominal 430 watts / min. 335 watts
Power Output @ 1dB compression Nominal 390 watts / min. 300 watts
Flattness ±3.5dB max. / ±1dB with Internal Leveling
Frequency Response 0.8 - 4.2 GHz instantaneously
Gain (at max. setting) 56dB min.
Gain Adjustment 50 ohms, VSWR 2.0:1 max.
Input Impedance 50 ohms, VSWR 2.0:1 max.
Mismatch Tolerance 30 ohms, VSWR 2.5:1 max.
 100% of rated power without feedback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. (See Application Note #27)
Third Order Intercept Point Minus 20dBc max. at 375 watts
Primary Power 50/60 Hz, single phase
Connectors Type N female on front panel
RF input Type N female on front panel
RF output Type BNC female on front panel
External leveling inputs Type BNC female on front panel
Pulse Modulation input Type BNC female on front panel
Detected RF output Type BNC female on front panel
Remote computer interfaces EEE-488 (DB), RS-232 female connector on front panel
Remotes Computer Interfaces ST Comm. Tx and Rx, RS-232
Operate Interface 15 pin female Subminiature D on rear panel
Safety Interlock 15 pin female Subminiature D on rear panel
Cooling Forced air (self contained fans)
Weight 336 kg (750 lb)
Size (WxHxD) 56.1 x 109 x 67.1 cm / 22.1 x 43 x 26.4 in.
Weight 336 kg (750 lb)

