

BI-DIRECTIONAL SYSTEMS 764 - 861 MHz

850622/B



860632/C



ELECTRICAL SPECIFICATIONS

Model Number	860622/B	860632/B	860642/B	860643/B
Frequency Band	764 - 806	764 - 806	764 - 806	764 - 861
Description	Standard	Standard	Standard	Standard
Passband Width (Note 4)	<=5 MHz	<=10 MHz	<=15 MHz	<=15 MHz
Stop Band Width	>=25 MHz	>=20 MHz	>=18 MHz	>=18/30 MHz
Amplifier Gain Typical	70 dB	70 dB	70 dB	70 dB
System Gain Typical	60 dB	60 dB	60 dB	60 dB
Amplifier O/P Power Max.	+37 dBm	+37 dBm	+37 dBm	+37 dBm
System O/P Power	Note 1	Note 1	Note 1	Note 1
Amplifier Noise Figure	3.0 dB	3.0 dB	3.0 dB	3.0 dB
System Noise Figure	Note 2	Note 2	Note 2	Note 2
1 dB Compression Point	+38 dBm	+38 dBm	+38 dBm	+38 dBm
IP3	+49 dBm	+49 dBm	+49 dBm	+49 dBm
Nominal Impedance	50 Ω	50 Ω	50 Ω	50 Ω
VSWR (Max.)	1.35:1	1.35:1	1.35:1	1.35:1
Amplifier Bias Voltage	13.6 VDC	13.6 VDC	13.6 VDC	13.6 VDC
System Voltage (Note 3)	115 VAC	115 VAC	115 VAC	115 VAC
Temperature Range	- 22 to +140 °F - 30 to 60 ° C	- 22 to +140 °F - 30 to 60 ° C	- 22 to +140 °F - 30 to 60 ° C	- 22 to +140 °F - 30 to 60 ° C

MECHANICAL SPECIFICATIONS

Connectors	N Female	N Female	N Female	N Female
Enclosure Type	NEMA 4	NEMA 4	NEMA 4	NEMA 4
Finish	Painted	Painted	Painted	Painted
Actual Dimensions Inches (H x W x D) Metric	16 x 12 x 6 407 x 305 x 153	16 x 12 x 6 407 x 305 x 153	16 x 12 x 5 407 x 305 x 153	Contact Factory
Ship Wt. lbs kg	53 24.1	53 24.1	53 24.1	53 24.1

SYSTEM UPGRADES

Alarm & Monitoring	✓	✓	✓	✓
UPS w/Battery B/U	✓	✓	✓	✓
80 dB System Gain	✓	✓	✓	✓

Note 1: System output power is a function of the number of carriers incident on the system, the signal level of these carriers to the signal enhancement system, and the insertion loss of the filters within the bidirectional system.

Note 2: System Noise Figure is the sum of the amplifier NF and the filter losses prior to the amplifier. The filter losses are dependent on the passband width for the uplink frequencies, the passband width for the downlink frequencies, and the stop band between them.

Note 3: Options are available for 12 VDC, 24 VDC, 48 VDC, 220 VAC

Note 4: Passband and stop band widths can and do vary. Please contact our factory with your frequencies as any of the standard bidirectional systems can be modified to different passband and/or stop band widths.