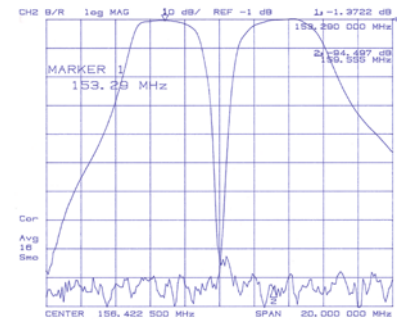


BI-DIRECTIONAL SYSTEMS

150 - 512 MHz

ELECTRICAL SPECIFICATIONS

Model Number	840622	850622/B	850622	850622/C
Frequency Band	150 - 174	390 - 400	400 - 470	470-512
Description	Standard	Standard	Standard	Standard
Passband Width (Note 4)	<=1.5 MHz	<=5 MHz	<=1.5 MHz	<=100 KHz
Stop Band Width	>=3.5 MHz	>=5 MHz	>=3.5 MHz	>=2.9 MHz
Amplifier Gain Typical	75 dB	70 dB	72 dB	72 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	4.0 dB	4.0 dB	4.0 dB	4.0 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



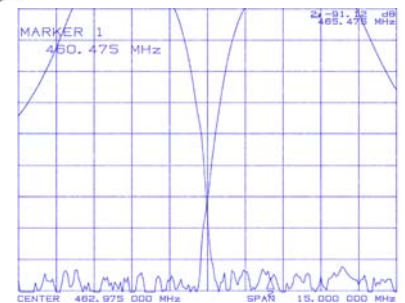
850622

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)	16 x 12 x 6	Contact Factory	20 x 16 x 5	20 x 16 x 5
Metric	407 x 305 x 153		508 x 407 x 127	508 x 407 x 127
Ship Wt. lbs	53	53	53	53
kg	24.1	24.1	24.1	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.