



30-512 MHz Bi-directional Amplifier

Item # 70-512

100 Watt Output

Covering The Entire Band From 30 MHz to 512 MHz via Single Port

Key features include:

- Temperature sensor readings available
- Over temperature protection - auto shut off over 70 °C
- Manual switching option via 3 V TTL or 5 V TTL
- Covers tactical band

Available as OEM package for system integrators and developers.



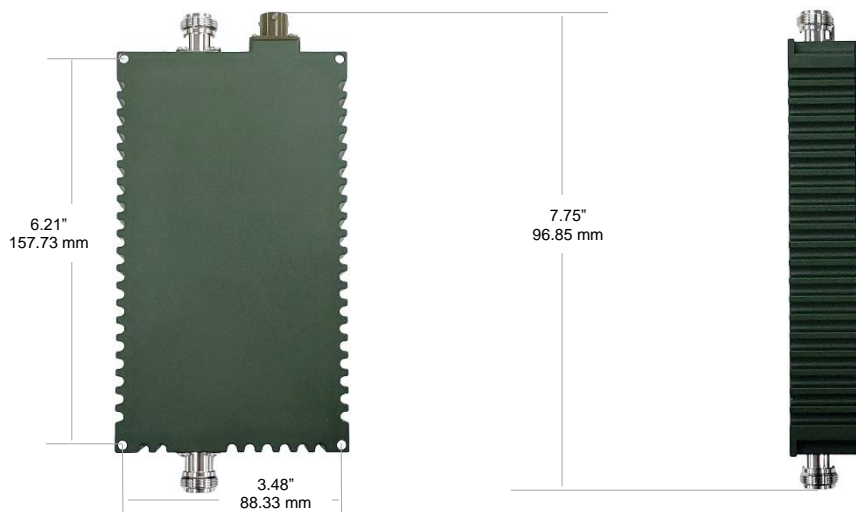
Specifications

Electrical:

Operating Range	30-512 MHz
Operating Mode	TDD, Time Division Duplex
Transmit Peak Power	50 dBm (100 Watt)
Transmit Gain	14 dB (+/- 2)
Transmit Input Power	0 dBm min, 34 dBm max
T/R Switching	Auto switching, or via Manual 3V / 5V TTL
Receive Gain	20 dB (+/- 2)
Noise Figure	<3 dB
TX/RX LED Indicator	Red for Receive (Default mode); Green for Transmit
Temp. LED indicator	Green for temp <70 °C; Red for temp >70 °C (>158 °F, P.A. shut off)
Power Consumption	With 28V _{DC} , 85mA Rx, 2.6A @ 10W CW Tx, 5.7A @ 50W CW Tx, 7.8A @ 100W CW Tx
Operating Temp	-40 °C (-40 °F) to +70 °C (158 °F) with appropriate heatsinking
Temp Sensor	Optional per customer needs

Mechanical:

Dimensions	L: 6.65" (168.91 mm), W: 3.72" (94.49 mm), H: 1.2" (30.48 mm) without connectors
Weight	23 Oz (~652 g)





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Performance Curves

