

TC-75

Multi-Band Power Amplifier



Elbit Systems of America C4I Solutions TC-75M Multi-Band PA is tough. Designed for continuous operation in a tactical environment, the 75-Watt Maximum Power Amplifier is housed in a rugged, lightweight, waterproof case, and is capable of operation in vehicles, shelters, transit cases, racks, or on the ground at the base of antennas. The unique interface on the TC-75 RF interface allows Multi-Band radios to operate seamlessly under all stressing waveforms without the requirement of a data interface for frequency tuning information from the radio all in one integrated LRU.



Features

- 30-512 MHz frequency coverage
- 50W LOS mode
- Selectable output power
- LED Status Indicators
- Supports multiple ECCM waveforms
- Full function remote control interface
- DAMA capable
- Internal RX Preamp (operator selectable)

TC-75

Multi-Band Power Amplifier

Physical Description

Height	3.0 in.
Width	6.0 in.
Depth	12 in.
Weight	<10 lbs.
Finish	Black Anodize
Chassis Material	Aluminum

Environmental Specifications

Operating Temperature	-40°C to +60°C
Non- operating Temperature	-60°C to +71°C
Leakage	Driving RainMIL-STD-810, MIL-STD-461, MIL-STD-704, MIL-STD-1275

Front Panel Indicators/Control

Full Function Key Panel Control

Remote Control Interface RS-232

LED Status Indicators DC, XMT Mode, LOS
Mode, SATCOM Mode, VSWR, Temperature

Electrical Specifications

General Characteristics

Frequency Range	30 – 512 MHz
Duty Cycle	Continuous
Input Impedance	50 Ω Nominal

Transmit Mode Characteristics

RF Input Power LOS	2 – 25W
RF Input Power SATCOM	2 – 25W
RF Output Power	

LOS	50W
SATCOM	User Selectable 35W, 50W and 75W
Output into VSWR	3:1
PTT	RF Input Sense; TX Mode=2W-25W; RX Mode; <200mW

Receive Mode Characteristics

SATCOM Frequency Range	240 – 270 MHz
Pre-Amp Gain	10 dB Min
Noise Figure	3.5 dB Typical
PA Bypass Insertion Loss	1.5 dB Typical
Primary Power	
Voltage	18 – 32VDC Supported
Current	11 A Max



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