



TMR8090 SERIES HF TRANSCEIVER

GENERAL

Stored Channels

- 1000 programmable

Frequency Stability

- OCXO: 0.01 PPM, 0° to +50°C

Modes of Operation

- USB/LSB/ISB/CW/AM/AME
- A1A, A1B, B7B, B8E, B9W, F1A, F1B, F1C, F3C, H2A, H2B, H3E, J2B, J3E, R2A, R2B, R3E
- Simplex, Half Duplex, or Full Duplex operation

Tuning

- Direct frequency or channel entry from keyboard or keypad on LCU, RCU, or computer

Synthesizer Tune Time

- < 20 ms

Remote Interfaces

- RS-232 or RS-485 (up to 1.3 km)

Line Input/Output

- Two independent channels
- -20 dBm to +10 dBm
- 600 ohm balanced audio

Voltage Requirements

- Universal Input: 90 to 270 VAC, 47 to 400 Hz single phase

BITE

- Auto test to board/module level on power up
- Re-test at user command

ENVIRONMENTAL/PHYSICAL

Temperature

- Operation: -5°C to +55°C
- Storage: -40°C to +70°C

Shock/Vibration

- MIL-STD-810E

Weight

- 21.2 lbs (9.6 kg)

Size (H x W x D)

- 7 x 19 x 15 in (178 x 483 x 381 mm)

RECEIVER

Frequency Range

- 10 kHz to 30 MHz in 1 Hz steps

Sensitivity

- 10 dB SINAD in 3 kHz bandwidth
- SSB: 0.5 μ V (-113 dBm)
- CW: 0.5 μ V (-113 dBm)
- AM: 3 μ V (reduced below 500 kHz)

EXCITER

Frequency Range

- 1.5 MHz to 30 MHz in 1 Hz steps

Output Power

- 50 mW

OPTIONS

- Internal Pre/Post-selector
- Rack Mount Kit
- TMR6490 Local Control Unit

TMR8090 SINGLE

Part Number 794052-001-XXX

TMR8091 FULL DUPLEX

Part Number 794053-001-XXX

TMR8092 DUAL

Part Number 794054-001-XXX

- Companion 125 W, 1 kW, or 5 kW LPA
- JITC-Certified MIL-STD-188-141B (App A) (ALE)
- TADIL-A/LINK-11 (A and G)
- Two Channel ISB
- Full BITE, Local, or Remote to LRU
- Configuration Flexibility



TMR8090 Transceiver with Optional TMR6490 Local Control Unit



TMR8090 Dual Transceiver

The following products are variants of the TMR8090 Series Transceiver:

TMR5090: SINGLE CHANNEL RECEIVER
(7990026-000-XXX)

TMR5091: DUAL CHANNEL RECEIVER
(799027-000-XXX)

TMR6790: SINGLE CHANNEL EXCITER
(795037-000-XXX)

TMR6791: DUAL CHANNEL EXCITER
(795038-000-XXX)