

Medium Power Amplifier

BACKGROUND INFORMATION

Task: Obsolescence Mitigation. Design Form, Fit and Functional Replacement

System Used in: satcom

Brief Description: This Medium Power Amplifier is used in the land-based side of the SATCOM system.

Program: UHF SATCOM

Customer: SSC Pacific

Results: Designed and built within budget and on time.



Top View Open



Completed Assembly

Specifications

- Gain: $\geq 30 \text{ dB} \pm 1 \text{ dB}$ variation across frequency band.
- Frequency Range: 243.0 – 270.5 MHz
- Input VSWR: $\leq 2.0:1$
- Output VSWR: $\leq 1.5:1$
- Inter-modulation: $\leq 100 \text{ dBm}$
- Input Levels: -40 dBm
- Voltage: $+20 \text{ V}$
- Pressure Test: 5 PSI w/ < 0.5 loss @ 1 hour

Features:

Manufacturer: Micro USA, Inc.

Cage Code: 02UU8