136-174MHz Power Amplifier Module

Model: TSVHF-136-174M-40W-48V-45dBc



Communications Technology & Engineering Accessories

Rev.V1.0

136-174MHz Power Amplifier Module

Tone Spread Amplifiers are suitable for frequency bands ranging from 20MHz to 6GHz,the output power can be customized from I Watts to 200 Watts.

The amplifiers utilize the cutting edge Solid-State technologies, such as GaN, LDMOS, with multi-measures, such as advanced broadband RF matching networks and combining technologies(Doherty design), then provide exceptional performance with high gain, high efficiency, wide dynamic range, low distortions, and good linearity.

The amplifiers have a variety of applications including Aerospace, Military, Radar, Electronic Warfare, Communication system (Repeater/BDA, RF Jammer, IMSI catcher), SATCOM, EMI/RFI testing, Lab test and measurement, PIM testing and so on.

Tone Spread ISO9001:2015 quality management system assures consistent performance, high reliability and ruggedness.

Features

- Solid-state Class AB design
- ◆ High gain and high efficiency
- High input/output isolation
- Ultra-wide band
- Compact design and lightweight
- ◆ Built-in protection and monitoring circuits

Technical Specifications

| Items | Specifications |
|--|---|
| Frequency Range | I36~I74MHz |
| Maximum Output Power | 46±IdBm |
| Maximum Input Power | +0dBm |
| Maximum Gain | 55±1dB |
| Gain Variation with Temperature | ≤2dB |
| ALC Range | ≥10dB |
| VSWR | ≤1.4 |
| Ripple | ≤2dB |
| Third-order Intermodulation | ≤-45dBc(600KHz Frequency Spacing) |
| Working Voltage | DC48V |
| Working Current | ≤5.5A |
| Impedance | 50Ω |
| D-sub 9Pin Male Control Interface Pin Map | I. GND NC VSWR Alarm: Alarm Output When VSWR Reaches I Over Power Alarm: 49±0.5 dBm NC EN Enable: Enable (Low-level enable; High-level / Open-circuit disable), TTL Level (Low: ≤0.7 V; High: |

All specifications are subject to change without notice.

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|--------|---|--|--|
| | | ≤4.8 V) 7. GND 8. Forward Power Detection: Outputs 4.0 V under the Condition of 46 dBm Continuous Wave IFA; 100 mV/dB 9. Over Temperature Alarm: Alarm Output When Temperature Reaches 85°C±5°C | |
| | RF Connector | SMA-Female | |
| | Dimension | 2000*I60*24mm(Estimate) | |
| | Working Temperature | -25°C∼+55°C | |

E-mail: sales@tspd.com.tw