Qualwave

Power Amplifier

QPA-5700-5900-50-57S

5.7~5.9GHz, 50dB, 57dBm

Features:
* Small Size
* Low Power Consumption

Applications:
* Wireless
* Transmitter
* Laboratory Test

Electrical

Frequency:	5.7~5.9GHz
Power Gain:	50dB min.
Gain Adjustment Range:	25dB (0.1dB step)
Gain Stability:	±0.35dB/24h max.
Gain Flatness:	±0.5dB/40MHz max. ±1.5dB/Full band max.
Output Power (Psat):	57dBm min.
IMD3:	-25dBc @Pout 54dBm (Dual-tone carriers spaced 5MHz apart)
Spurious:	-60dBc
Harmonic:	-35dBc
In-band Group Delay Variation:	0.25ns/MHz max.
Parabolic Group Delay:	0.05ns/MHz² max.
Group Delay Ripple:	2ns max.
AM/PM:	2°/dB @Pout 54dBm
Input VSWR:	1.5
Output VSWR:	1.3
Input Voltage:	28VDC
Power Consumption:	2200W
Control Function:	RF switching, Output power setting, Gain attenuation setting, ALC
Monitoring & Reporting Function:	Output power reporting, Reflected power reporting, Gain attenuation value reporting, Module temperature reporting, Voltage and current reporting
Protection Function:	Over-voltage protection, Over-current protection, Over-temperature protection, Reflected power overload protection, Input power overload protection

Mechanical

RF Input Connectors:	N female
RF Output Connectors:	WR137 (Grooved flange)
Power Supply Interface:	Aviation connector
Control Interface:	Aviation connector, RS232
Ethernet Interface:	RJ45, Ethernet, Supporting SNMP & HTTP
Program Update Interface:	Aviation connector
Cooling:	Forced air

Environmental

Operating Temperature:	-30~+55°C
Non-operating Temperature:	-40~+65°C

Outline Drawings

To be done.

Unit: mm [in]
Tolerance: ±0.2mm [±0.008in]

How To Order

QPA-5700-5900-50-57S

Customization is available upon request.