R&K-A501M272-4747R

Class A Linear Solid-State Amplifier
Broadband Frequency: 500MHz ~ 2700MHz
Output Power (CW): 50W (min.) @ 1dB Comp.

APPLICATION
- EMC (Electromagnetic Compatibility)
- Accelerator Application
- Telecommunication Test and Measurement Application
- Etc...

SPECIFICATIONS @ +25°C
Frequency Range: 500MHz ~ 2700MHz
Small Signal Gain: +47.0dB (min.)
Gain Flatness: ±2.0dB (max.)
Output Power (CW): 50W (min.) @ 1dB Comp.
Operation Mode: Class A
Output I.C.P.: +57.0dBm (typ.)
Harmonics: -20.0dBc (max.) @ Po=50W
Spurious: -70.0dBc (max.) @ Po=50W
Impedance: 50Ω
Input VSWR: 2.0 (max.)
Output VSWR: 2.0 (max.)
Maximum RF Input Power: +3.0dBm
AC Supply Input: AC100V ±10%/1φ, 50/60Hz, 1kVA
Operating Temperature: 0°C to +40°C
Storage Temperature: -15°C to +65°C
Connectors: RF-IN N-FEMALE
            RF-OUT N-FEMALE
Size: (W)480mm x (D)649.5mm x (H)177mm (EIA: 4U)
Weight: 35.0kg (max.)
Cooling: Forced Air Cooling
Protection Circuits: Over Temperature Protection
                   Power Supply Voltage Protection
                   Output Over Power Protection
                   Output Over Reflection Power Protection

TYPICAL PERFORMANCE (Temp @+25°C)

Gain Flatness

Input / Output VSWR

Output Power 1dB Gain Comp.

Output Harmonics

Output Power Linearity

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without notice. R&K products shall not be used for or in connection with equipment that requires an
extremely high level of reliability and safety such as aerospace uses or medical life support equipment.
Further, the export of R&K products from Japan may be subject to an export license by the government
of Japan, based on Japan’s “Foreign Exchange and Foreign Trade Law.”

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