

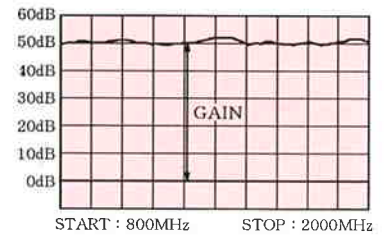


MICROWAVE GaAs FET AMPLIFIER

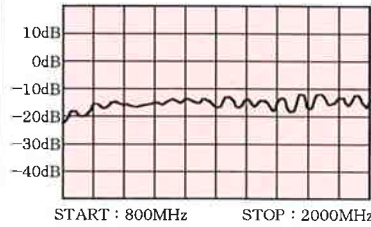
MODEL R&K A0820-4747-R

- BROADBAND FREQUENCY : 800~2000MHz
- HIGH POWER : 50W min. (@1dB Comp.)
- HIGH RELIABILITY GaAs FET CONSTRUCTION
- FOR COMMUNICATIONS TEST EQUIPMENT

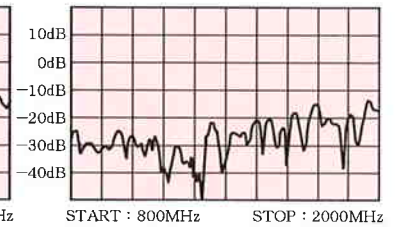
■ SMALL SIGNAL GAIN



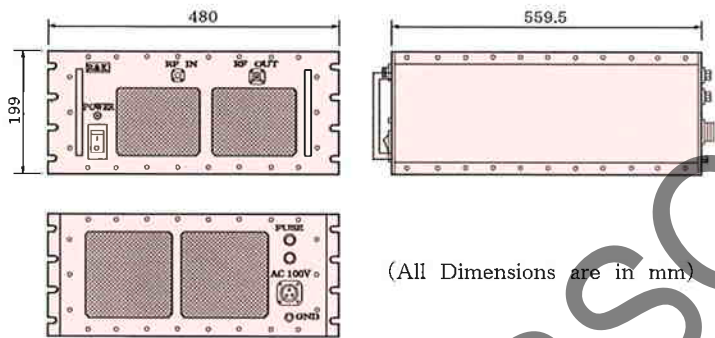
■ INPUT RETURN LOSS



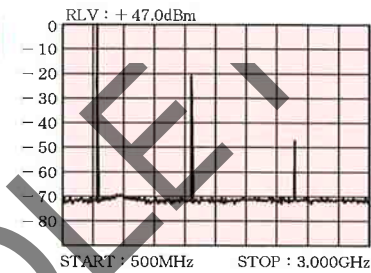
■ OUTPUT RETURN LOSS



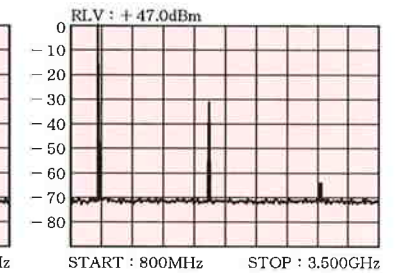
DIMENSION



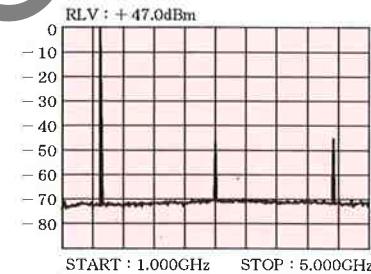
■ HARMONICS (Fo=800MHz/50W)



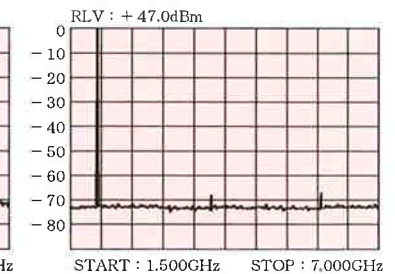
■ HARMONICS (Fo=1GHz/50W)



■ HARMONICS (Fo=1.5GHz/50W)



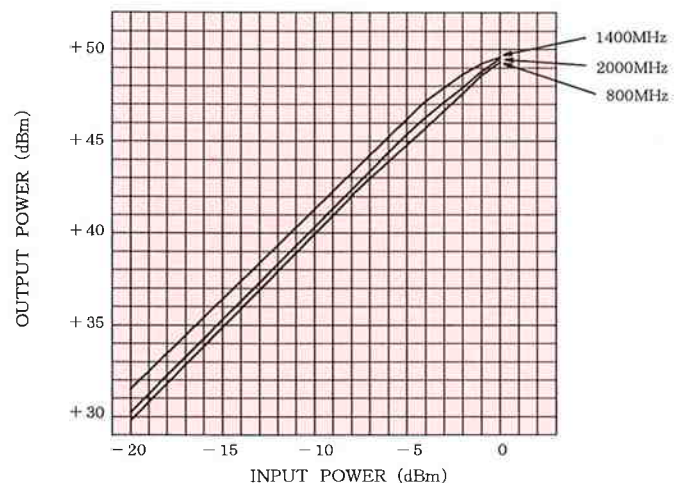
■ HARMONICS (Fo=2GHz/50W)



SPECIFICATIONS

- | | |
|--------------------------------------|--|
| 1. Input/Output Frequency Range | 800~2000MHz (min.) |
| 2. Small Signal Gain | +47dB (min.) |
| 3. Power Gain @1dB Compression | +46dB (min.) |
| 4. Power Gain Flatness | ±2.0dB (max.) |
| 5. Power Output (@1dB Comp.) | 50W (min.) |
| 6. Amplifier Operation Mode | Class A Linear |
| 7. 2 Tone 3rd Order Intercept Point | +57dBm (typ.) |
| 8. Input/Output Impedance | 50Ω Nominal |
| 9. Input VSWR | 2.0 (max.) |
| 10. Output VSWR | 2.0 (max.) |
| 11. Harmonics | -18dBc (max.) @ Full Power |
| 12. Spurious | -60dBc (max.) @ Full Power |
| 13. Input Noise Figure | 10dB (typ.) |
| 14. Output Power Duty Ratio | 100% C.W. |
| 15. Connectors | RF Input: SMA - Female
RF Output: N - Female |
| 16. AC Supply Input Connector | Cannon Type AC Connector |
| 17. Ground Connector | Terminal On Back Panel
Integral AC/Ground Connector |
| 18. Open/Short Circuit Protection | Protected 6:1 VSWR |
| 19. Integral Temperature Sensor | +65°C Internally Protected |
| 20. Integral Over Current Protection | 20A (max.) |
| 21. AC Power Supply Input | AC100V, 50/60Hz · 15A (max.) |
| 22. Cooling | Integral Forced Air Cooling |
| 23. Operating Temperature | -10°C ~ +45°C |
| 24. Storage Temperature | -15°C ~ +65°C |
| 25. Weight | 50 kg |

■ INPUT - OUTPUT LINEARITY



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