



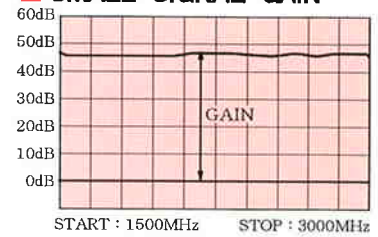
MICROWAVE GaAs FET AMPLIFIER

MODEL R&K A1530-4342R

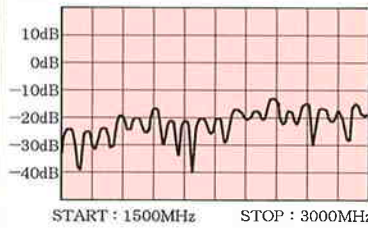
- BROADBAND FREQUENCY : 1500~3000MHz
- HIGH POWER : 15W min. (@1dB Comp.)
- HIGH RELIABILITY GaAs FET CONSTRUCTION
- FOR COMMUNICATIONS TEST EQUIPMENT



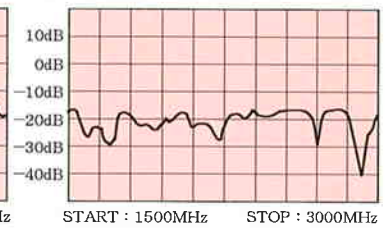
SMALL SIGNAL GAIN



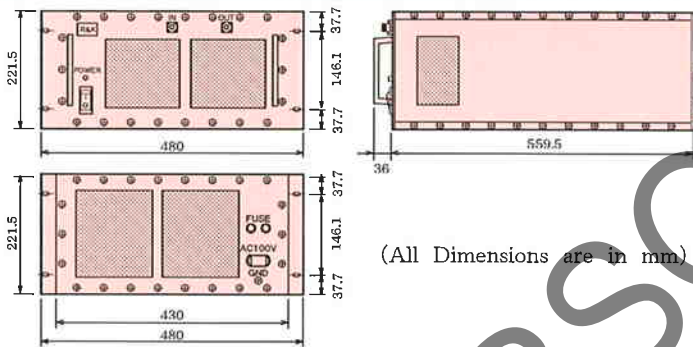
INPUT RETURN LOSS



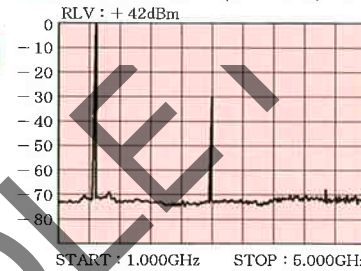
OUTPUT RETURN LOSS



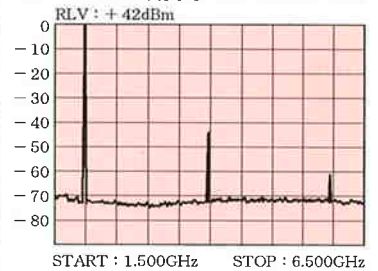
DIMENSIONS



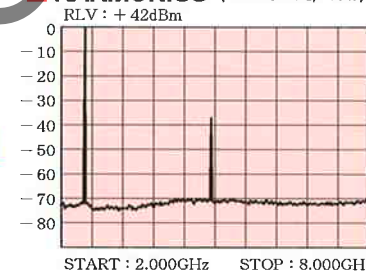
HARMONICS (Fo = 1.5GHz/15W)



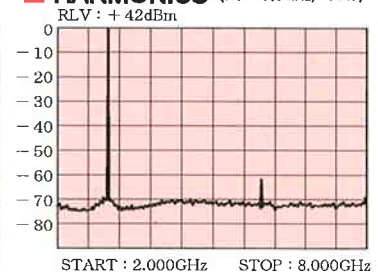
HARMONICS (Fo = 2.0GHz/15W)



HARMONICS (Fo = 2.5GHz/15W)



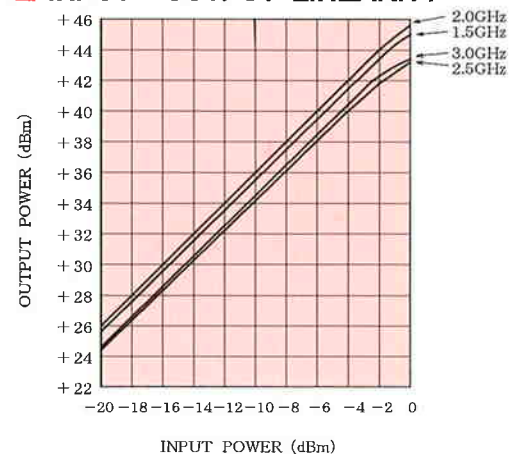
HARMONICS (Fo = 3.0GHz/15W)



SPECIFICATIONS

- | | |
|--------------------------------------|--|
| 1. Input/Output Frequency Range | 1500~3000MHz (min.) |
| 2. Small Signal Gain | +43dB (min.) |
| 3. Power Gain @1dB Compression | +42dB (min.) |
| 4. Power Gain Flatness | ±1.5dB (max.) |
| 5. Power Output (@1dB Comp.) | 15W (min.) |
| 6. Amplifier Operation Mode | Class A Linear |
| 7. 2 Tone 3rd Order Intercept Point | +52dBm (typ.) |
| 8. Input/Output Impedance | 50 Ω Nominal |
| 9. Input VSWR | 2.0 (max.) |
| 10. Output VSWR | 1.5 (max.) |
| 11. Harmonics | -20dBc (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: SMA - 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 Infinite VSWR (with Circulator) |
| 19. Integral Temperature Sensor | +65°C Internally Protected |
| 20. Integral Over Current Protection | 10A (max.) |
| 21. AC Power Supply Input | AC100V, 50/60Hz·3.5A (max.) |
| 22. Cooling | Integral Forced Air Cooling |
| 23. Operating Temperature | -10°C~+45°C |
| 24. Storage Temperature | -15°C~+65°C |
| 25. Weight | 25kg |

INPUT - OUTPUT LINEARITY



R&K Company Limited.

121-6 Yunoki, Fuji-City, Shizuoka-Pref. Japan.
Phone:0545-64-0559 FAX:0545-64-0507