



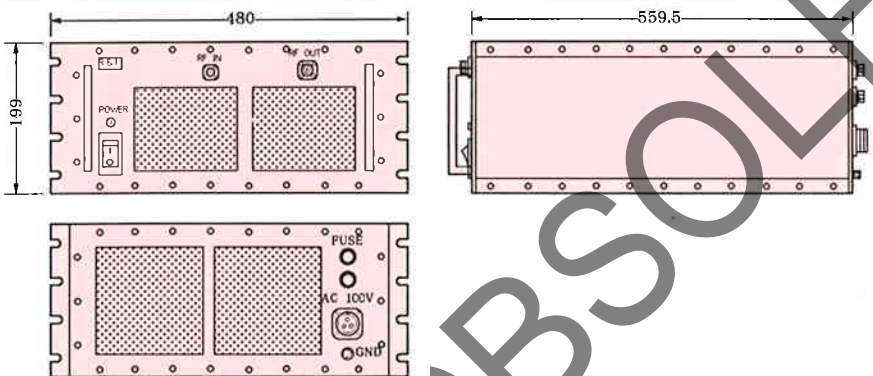
# MICROWAVE GaAs FET AMPLIFIER

## MODEL R&K A2000-50L-R

- BROADBAND FREQUENCY : 800~1600MHz
- HIGH POWER : 50W min. (@1dB Comp.)
- HIGH RELIABILITY GaAs FET CONSTRUCTION
- FOR COMMUNICATIONS TEST EQUIPMENT



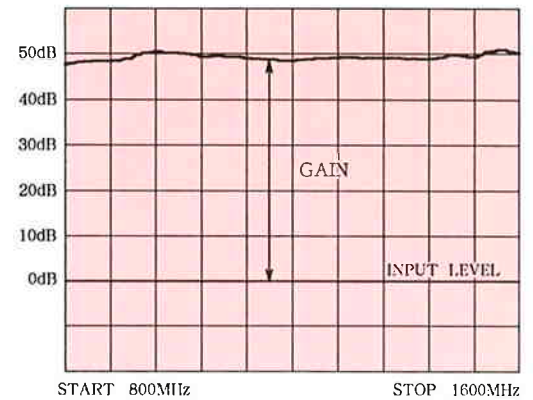
### DIMENSION



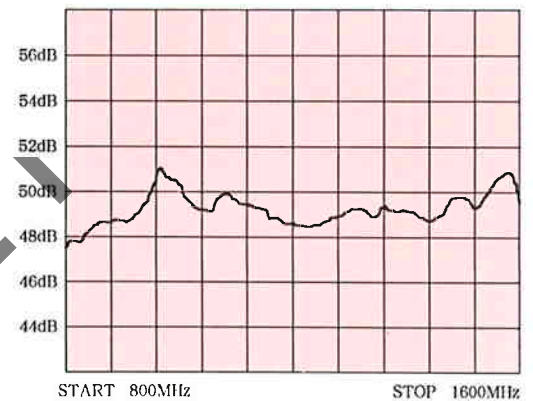
### SPECIFICATIONS

- |                                     |   |
|-------------------------------------|---|
| 1. Input/Output Frequency Range     | 800~1600MHz (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           | 50 Ω Nominal                                    |
| 9. Input VSWR                       | 2.0 (max.)                                      |
| 10. Output VSWR                     | 1.5 (max.)                                      |
| 11. Harmonics                       | -18dBc (max.) @ Full Power                      |
| 12. Spurious                        | -60dBc (max.) @ Full Power                      |
| 13. Input Noise Figure              | 10.0dB (typ.)                                   |
| 14. Output Power Duty Ratio         | 100% C.W.                                       |
| 15. Connectors                      | RF Input: SMA - Female<br>RF Output: N - Female |
| 16. AC Power Supply Input           | 100V, AC · 50/60Hz · 15A (max.)                 |
| 17. Cooling                         | Integral Forced Air Cooling                     |
| 18. Operating Temperature           | -10 °C ~ +45 °C                                 |
| 19. Storage Temperature             | -15 °C ~ +65 °C                                 |
| 20. Protection Circuits             | Infinite Load VSWR<br>Thermal Overload          |

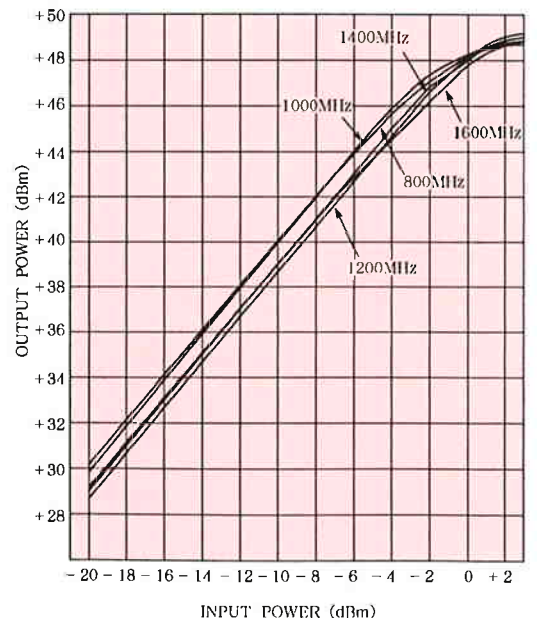
### SMALL SIGNAL GAIN



### GAIN FLATNESS



### INPUT - OUTPUT LINEARITY



**R&K Company Limited.**

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