



MICROWAVE GaAs FET AMPLIFIER

MODEL R&K A2000-20-R

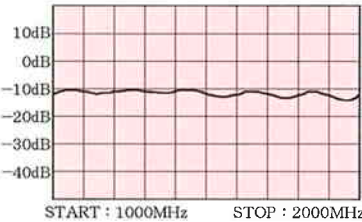
- BROADBAND FREQUENCY : 1000~2000MHz
- HIGH POWER : 20W min. (@1dB Comp.)
- HIGH RELIABILITY GaAs FET CONSTRUCTION
- FOR COMMUNICATIONS TEST EQUIPMENT



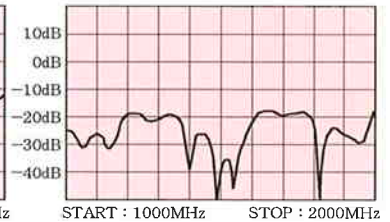
■ SMALL SIGNAL GAIN



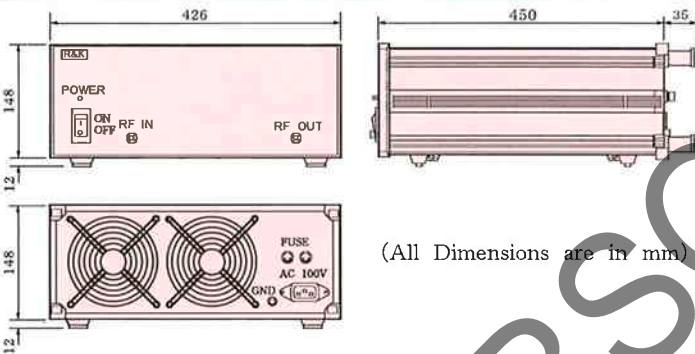
■ INPUT RETURN LOSS



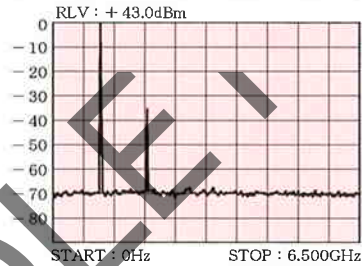
■ OUTPUT RETURN LOSS



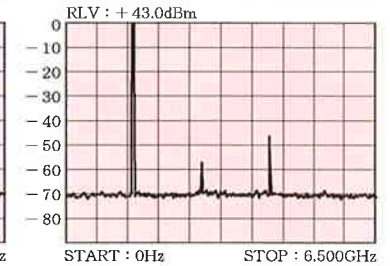
DIMENSIONS



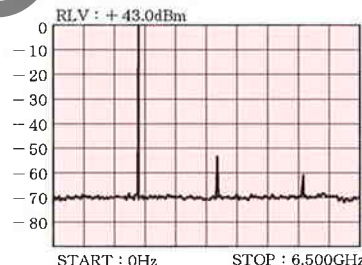
■ HARMONICS (Fo = 1.0GHz/20W)



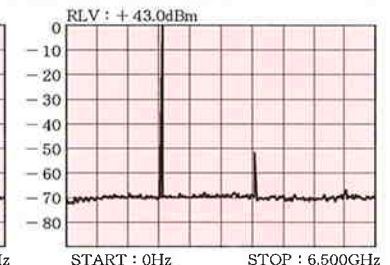
■ HARMONICS (Fo = 1.5GHz/20W)



■ HARMONICS (Fo = 1.75GHz/20W)



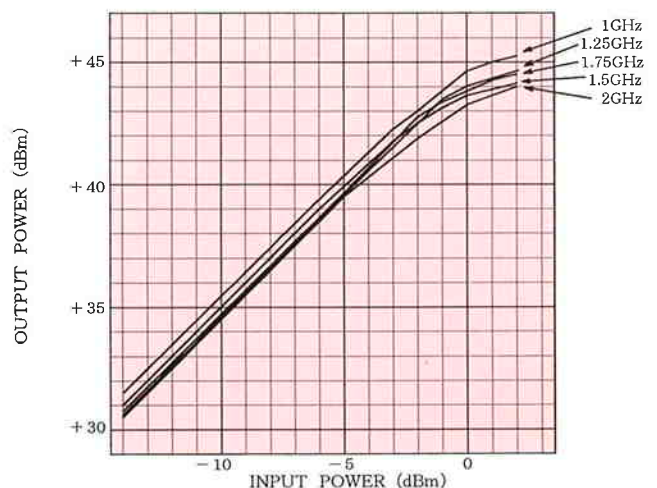
■ HARMONICS (Fo = 2.0GHz/20W)



SPECIFICATIONS

1. Input/Output Frequency Range 1000~2000MHz (min.)
2. Small Signal Gain +43dB (min.)
3. Power Gain @1dB Compression +42dB (min.)
4. Power Gain Flatness ± 1.5 dB (max.)
5. Power Output (@1dB Comp.) 20W (min.)
6. Amplifier Operation Mode Class A Linear
7. 2 Tone 3rd Order Intercept Point +53dBm (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 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 Inlet Socket Type
17. Ground Connector Terminal On Back Panel
18. Open/Short Circuit Protection Integral AC/Ground Connector
19. Integral Temperature Sensor Protected Infinite VSWR
20. Integral Over Current Protection +65°C Internally Protected
21. AC Power Supply Input 10A (max.)
22. Cooling AC100V, 50/60Hz \cdot 3.5A(max.)
23. Operating Temperature Integral Forced Air Cooling
24. Storage Temperature -10°C~+45°C
25. Weight -15°C~+65°C
- 25kg

■ INPUT-OUTPUT LINEARITY



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