



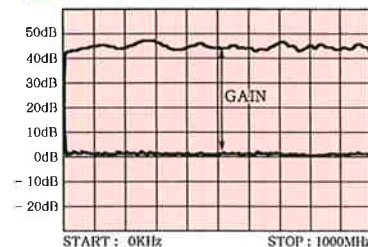
RF POWER MOS FET AMPLIFIER

MODEL R&K A1000-15-R

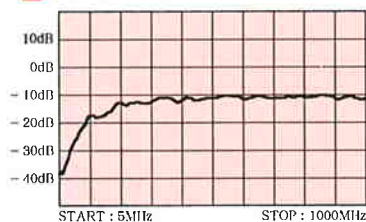
- BROADBAND FREQUENCY : 10~1000MHz
- HIGH POWER : 15W min. (@1dB Comp.)
- ALL SOLID STATE CIRCUIT
- 19 INCHES RACK SIZE



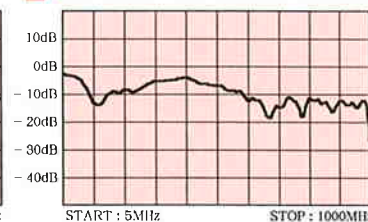
SMALL SIGNAL GAIN



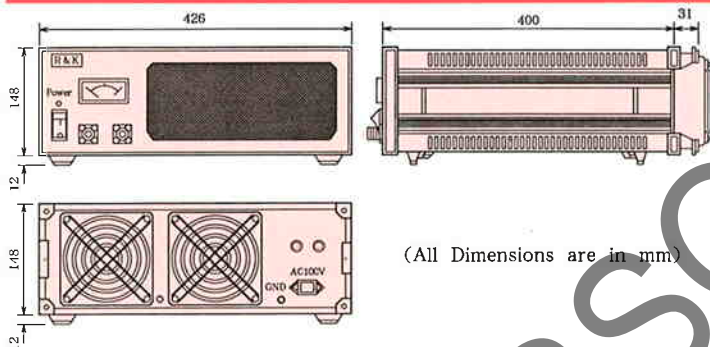
INPUT RETURN LOSS



OUTPUT RETURN LOSS

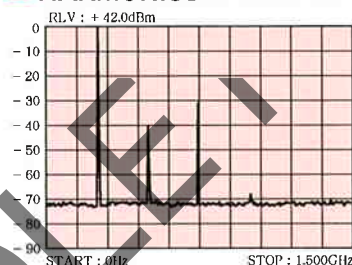


DIMENSION

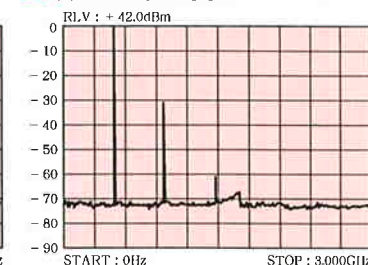


(All Dimensions are in mm)

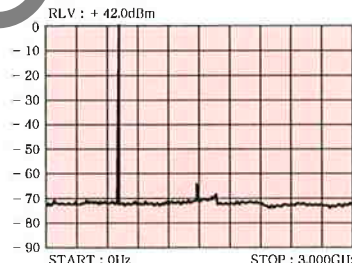
HARMONICS (Fo = 250MHz/15W)



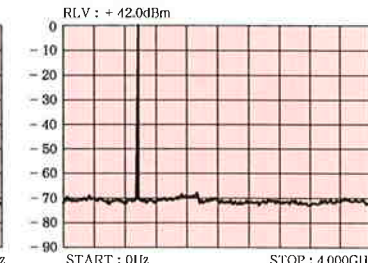
HARMONICS (Fo = 500MHz/15W)



HARMONICS (Fo = 750MHz/15W)



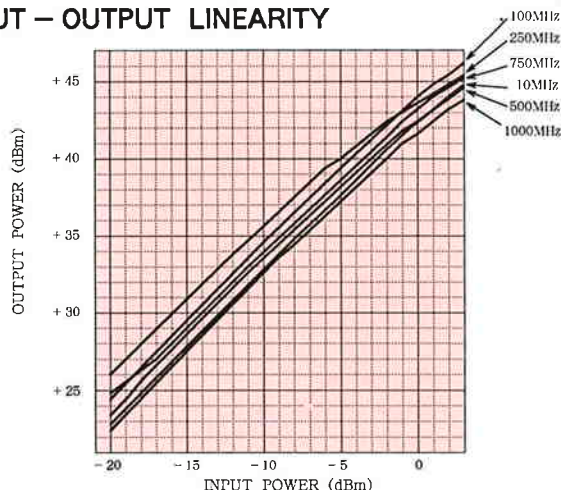
HARMONICS (Fo = 1000MHz/15W)



SPECIFICATIONS

1. Input/Output Frequency Range 10~1000MHz (min.)
2. Small Signal Gain +42dB (min.)
3. Power Gain @1dB Compression +41dB (min.)
4. Power Gain Flatness ± 2.0 dB (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 (typ.)
10. Output VSWR 3.0 (typ.)
11. Harmonics -18dB (max.) @ Full Power
12. Spurious -60dB (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
- Integral AC/Ground Connector Protected 6 : 1 VSWR
18. Open/Short Circuit Protection +65°C Internally Protected
19. Integral Temperature Sensor 15.0A (max.)
20. Integral Over Current Protector ± 10 % Forward
21. RF Output Power Meter 100V, AC $\cdot 50/60$ Hz $\cdot 8$ A (max.)
22. AC Power Supply Input Forced Air Cooling Required
23. Cooling -10°C ~ +45°C
24. Operating Temperature -15°C ~ +65°C
25. Storage Temperature 15kg
26. Weight

INPUT - OUTPUT LINEARITY



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