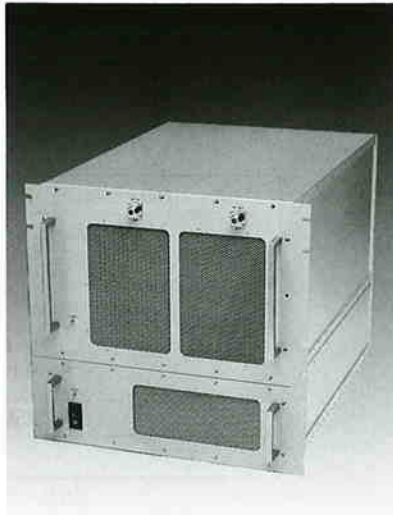




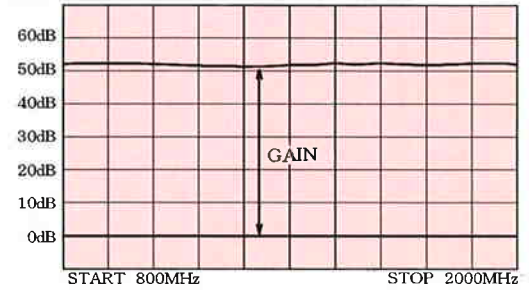
MICROWAVE GaAs FET AMPLIFIER

MODEL R&K A0820-5050-R

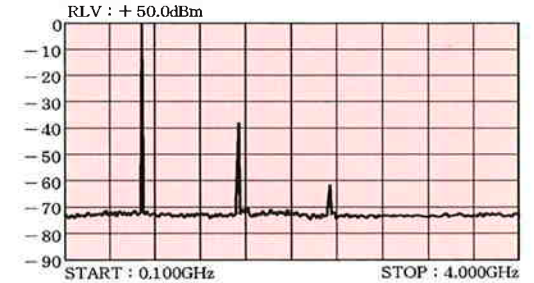
- BROADBAND FREQUENCY : 800~2000MHz
- HIGH POWER : **100W min.** (@ 1dB Comp.)
- HIGH RELIABILITY GaAs FET CONSTRUCTION
- AM · FM · SSB CW · PULSE
- 19 INCHES RACK SIZE



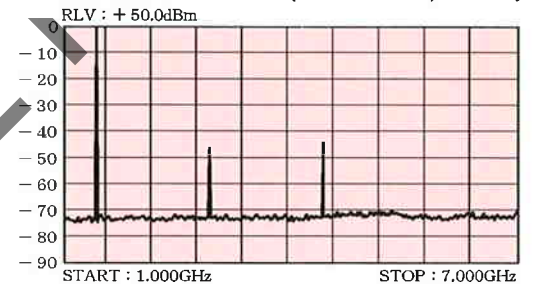
SMALL SIGNAL GAIN



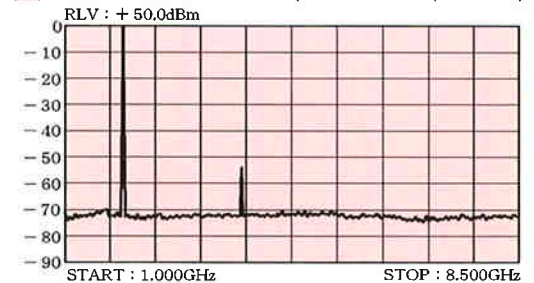
HARMONICS (Fo = 0.8GHz/100W)



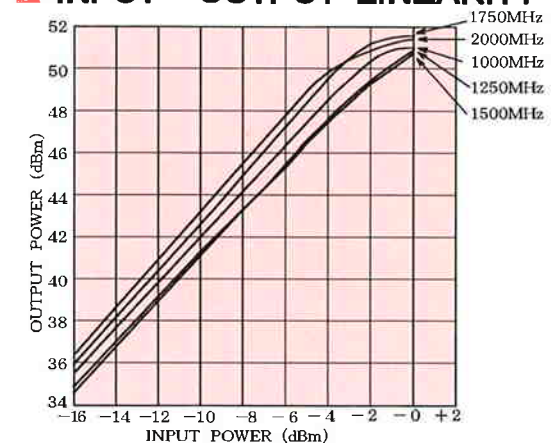
HARMONICS (Fo = 1.5GHz/100W)



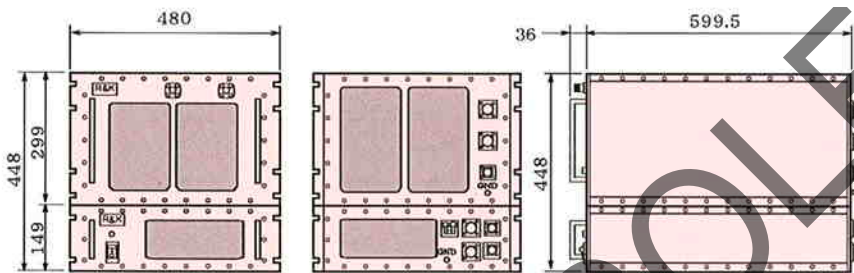
HARMONICS (Fo = 2.0GHz/100W)



INPUT - OUTPUT LINEARITY



DIMENSIONS



SPECIFICATIONS

1. Input/Output Frequency Range 800MHz~2000MHz (min.)
2. Small Signal Gain + 50dB (min.)
3. Power Gain @1dB Compression +49dB (min.)
4. Power Gain Flatness ± 2.0dB (max.)
5. Power Output (@1dB Comp.) 100W (min.)
6. Amplifier Operation Mode Class A Linear
7. 2 Tone 3rd Order Intercept Point + 60dBm (typ.)
8. Input/Output Impedance 50 Ω 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 N - 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
(Option : Protected Infinite VSWR with Circulator)
19. Integral Temperature Sensor + 65°C Internally Protected
20. Integral Over Current Protector 30.0A (max)
21. AC Power Supply Input 200V, AC·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 60.0 kg



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