



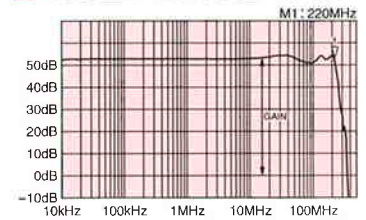
RF POWER MOS FET AMPLIFIER

MODEL R&K A220-100-R

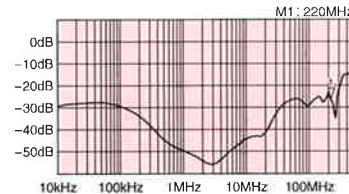
- BROADBAND FREQUENCY : 0.01MHz~220MHz
- HIGH POWER : 100W min. @ 1dB Comp.
- ALL SOLID STATE CIRCUIT
- 19 INCHES RACK SIZE



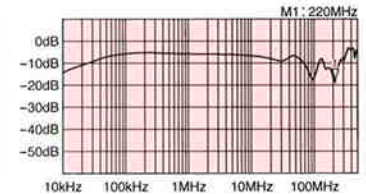
SMALL SIGNAL GAIN



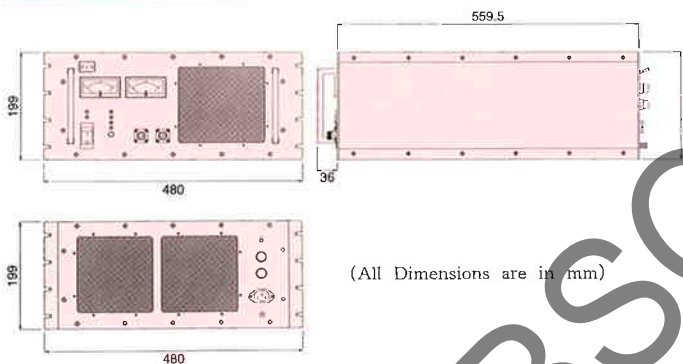
INPUT RETURN LOSS



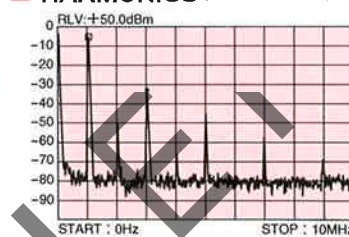
OUTPUT RETURN LOSS



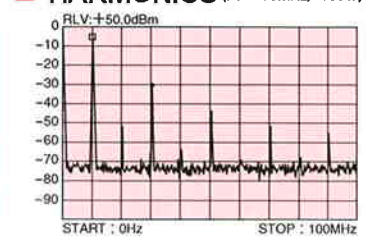
DIMENSION



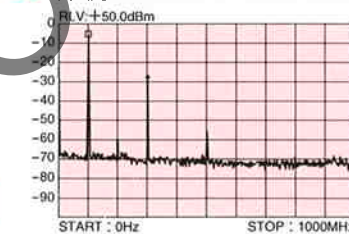
HARMONICS (Fo = 1MHz/100W)



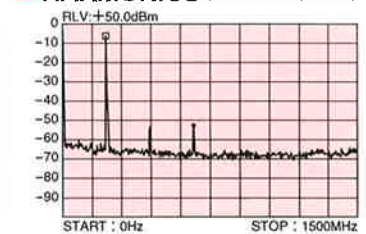
HARMONICS (Fo = 10MHz/100W)



HARMONICS (Fo = 100MHz/100W)



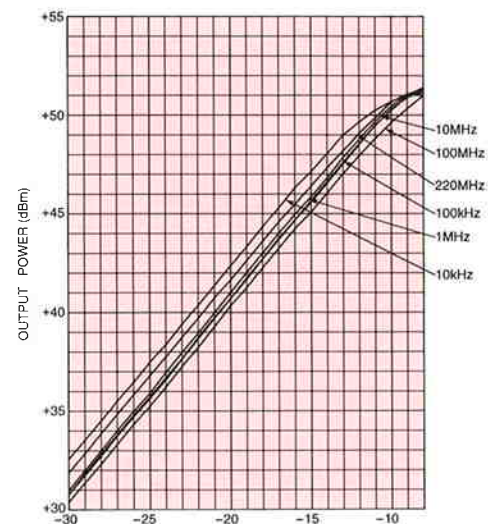
HARMONICS (Fo = 220MHz/100W)



SPECIFICATIONS

1. Input/Output Frequency Range 0.01~220MHz
2. Small Signal Gain +52dB (min.)
3. Power Gain @ 1dB Compression +51dB (min.)
4. Power Gain Flatness ± 2.0 dB (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 (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 N - Female
- RF Output N - 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 +70°C Internally
19. Integral Temperature Sensor 15.0A (max.)
20. Integral Over Current $\pm 10\%$ Forward and Reflect
21. RF Output Power Meter 100V, AC $\cdot 50/60$ Hz $\cdot 10$ 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 20kg
26. Weight

INPUT - OUTPUT LINEARITY



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