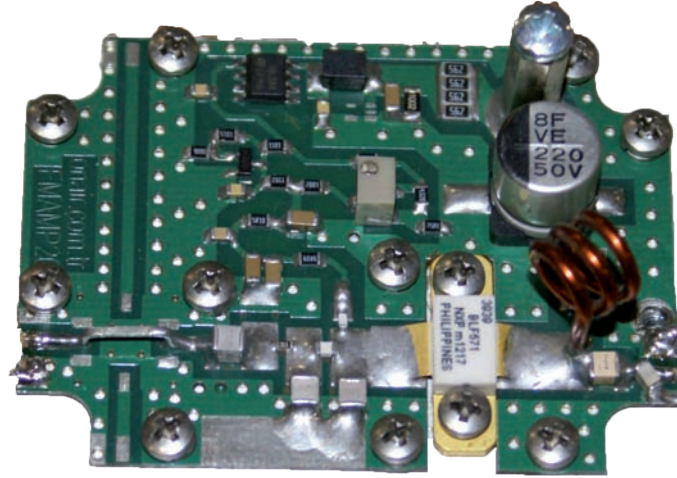




FMAMP20

20W - FM PALLET AMPLIFIER



It is designed for FM radio exciters and transmitters. This amplifier incorporates LDMOS transistor to enhance ruggedness and reliability.

- 87.5 ÷ 108 MHz
- 50 Volts
- Input Impedance: 50 Ohm
- Output Impedance: 50 Ohm
- Pout: 20 W
- Gain: 28.3 dB min.
- Efficiency: 70%
- Class: AB
- Devices: BLF571
- Equipped with an adjustable attenuator to allow adjusting output power

Technical Parameters

ABSOLUTE MAXIMUM RATINGS (Device Flange T = 70 °C)

| Symbol | Parameter | Value | Unit |
|--------|---------------------------|------------|------|
| Vs | Voltage Supply | 50 | V dc |
| Is | Supply Current | 1 | A dc |
| Tstg | Storage Temperature Range | -30 / +100 | °C |
| Tc | Operating Temperature | -10 / +45 | °C |

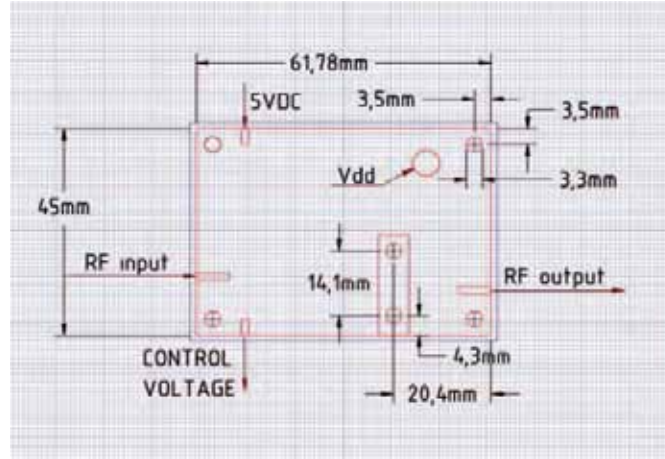
ELECTRICAL SPECIFICATIONS (Base Plate T. = 45 °C, 50 Ohm loaded, Vd = 50 V)

| Characteristics | Min | Typ. | Max | Unit |
|----------------------------|-------|------|-------|------|
| Fundamental Output Power | 3 | 20 | 25 | W |
| Power Input | | 29.5 | | mW |
| Power Gain (20W output) | | 28.3 | | dB |
| Efficiency (Load 50 Ohm) | 60 | 67 | | % |
| Input VSWR | 1.8:1 | | | |
| Flatness | | | ±1.25 | dB |
| Class AB Quiescent Current | | 45 | | mA |

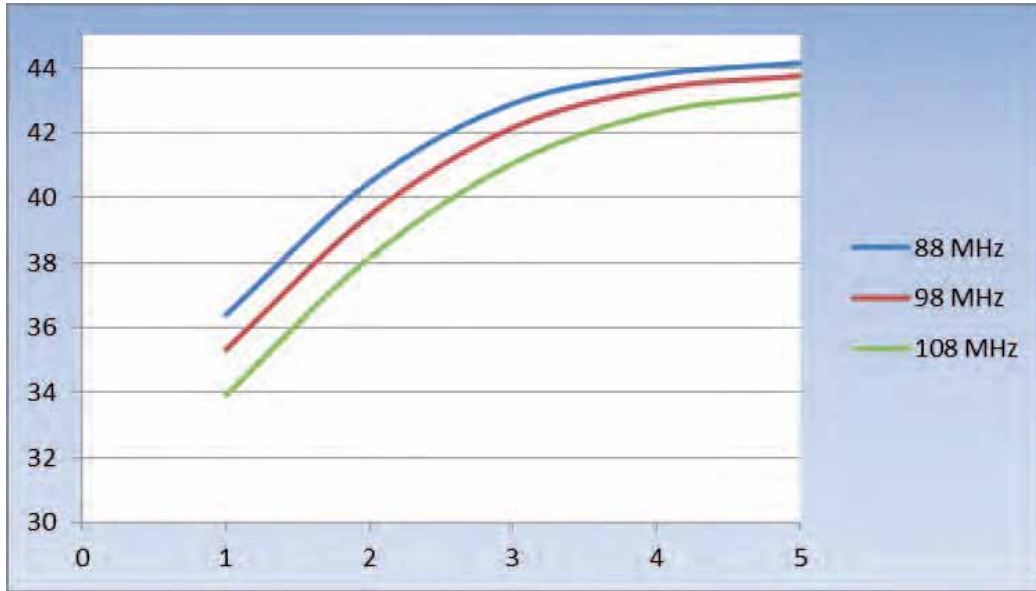


FMAMP20

20W - FM PALLET AMPLIFIER



OUTPUT POWER VERSUS CONTROL VOLTAGE



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