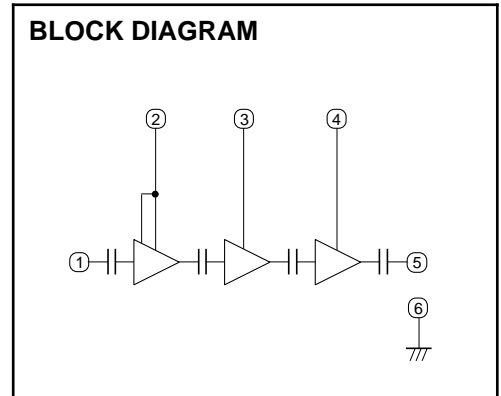
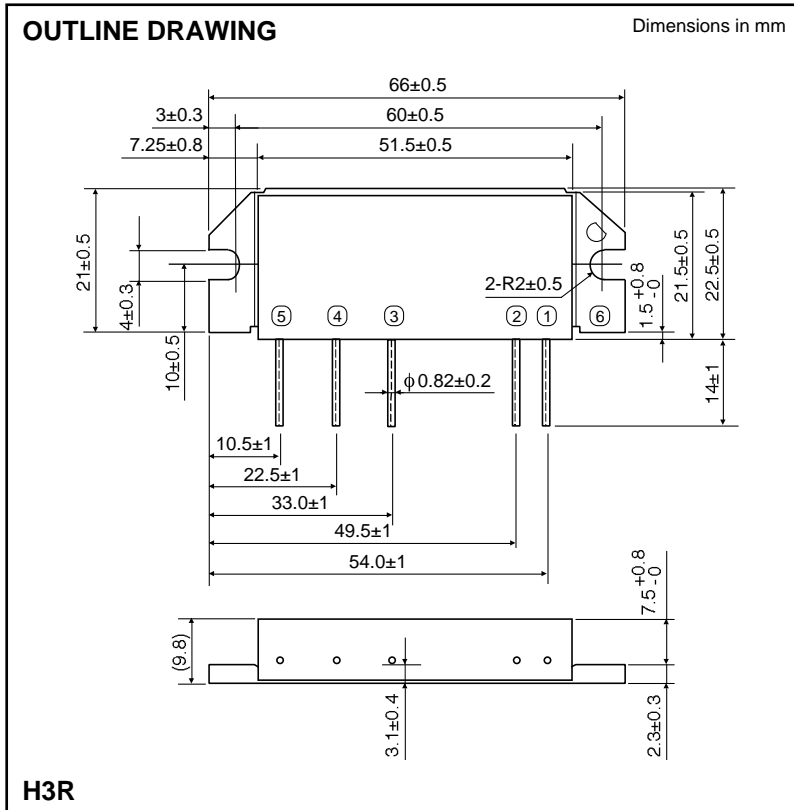


MITSUBISHI RF POWER MODULE

M57788LR

400-430MHz, 13.5V, 47W, FM MOBILE RADIO



- PIN:
- ① Pin : RF INPUT
 - ② Vcc1: 1st. DC SUPPLY
 - ③ Vcc2: 2nd. DC SUPPLY
 - ④ Vcc3: 3rd. DC SUPPLY
 - ⑤ Po : RF OUTPUT
 - ⑥ GND: FIN

ABSOLUTE MAXIMUM RATINGS (Tc=25°C unless otherwise noted)

| Symbol | Parameter | Conditions | Ratings | Unit |
|-----------------------|----------------------------|-----------------------|-------------|------|
| Vcc | Supply voltage | ZG=ZL=50 | 17 | V |
| Icc | Total current | ZG=ZL=50 | 12 | A |
| P _{in} (max) | Input power | ZG=ZL=50 , Vcc1 13.5V | 800 | mW |
| P _O (max) | Output power | ZG=ZL=50 , Vcc1 13.5V | 50 | W |
| T _C (OP) | Operation case temperature | ZG=ZL=50 , Vcc1 13.5V | -30 to +110 | °C |
| T _{stg} | Storage temperature | | -40 to +110 | °C |

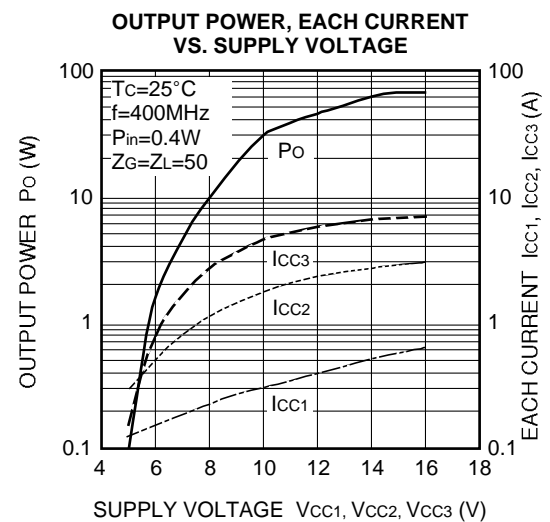
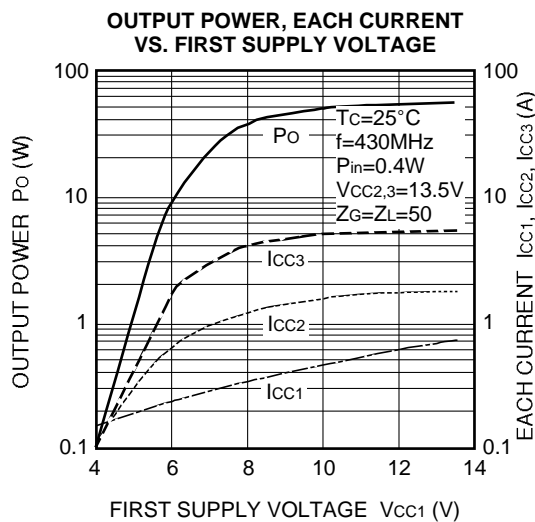
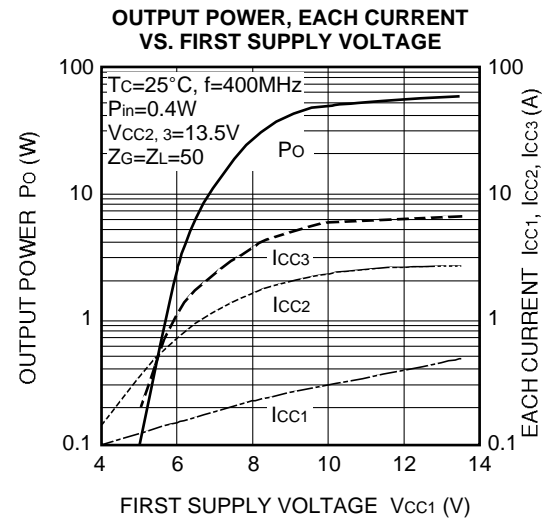
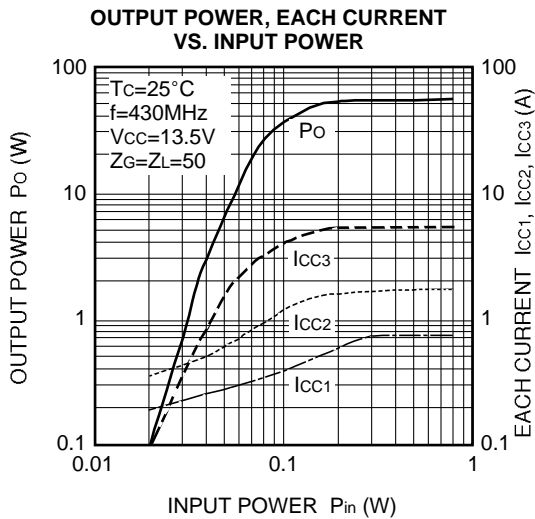
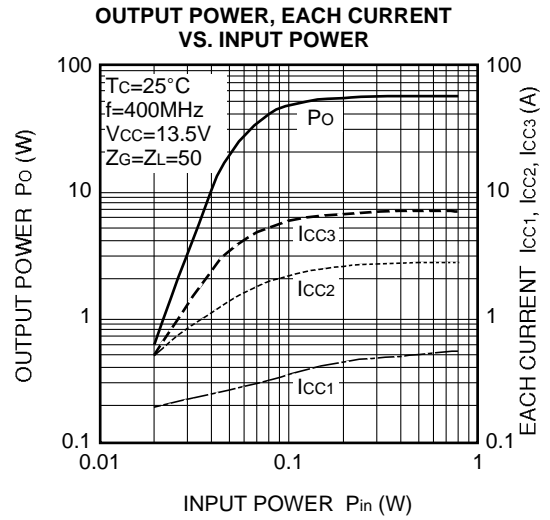
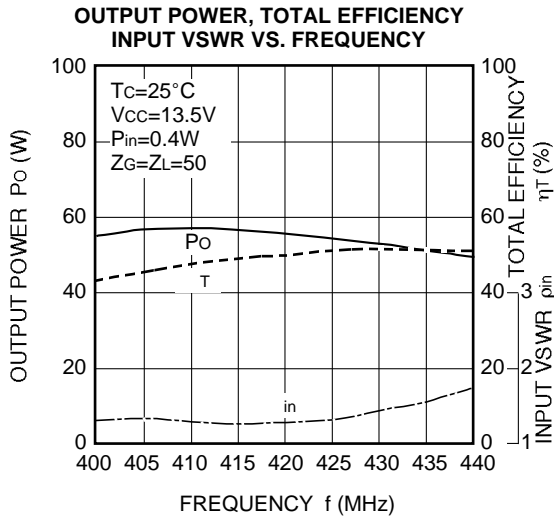
Note. Above each maximum ratings are guaranteed independently.

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise noted)

| Symbol | Parameter | Test conditions | Limits | | Unit |
|-----------------|---------------------|---|---------------------------|-----|------|
| | | | Min | Max | |
| f | Frequency range | | 400 | 430 | MHz |
| P _O | Output power | Vcc=13.5V, P _{in} =400mW, ZG=ZL=50 | 47 | | W |
| η | Total efficiency | | 40 | | % |
| 2f _o | 2nd. harmonic | | | -30 | dBc |
| 3f _o | 3nd. harmonic | | | -30 | dBc |
| in | Input VSWR | | | 2.8 | — |
| — | Load VSWR tolerance | Vcc=15.2V, P _O =47W (P _{in} :Controlled), ZG=50 , Load VSWR=8:1 (All phase) | No degradation or destroy | | — |

Note. Above parameters, ratings, limits and test conditions are subject to change.

TYPICAL PERFORMANCE DATA



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M57788LR

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