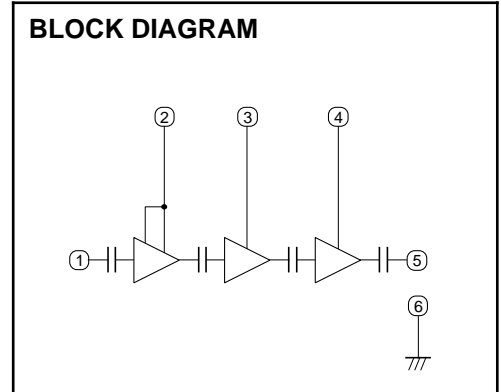
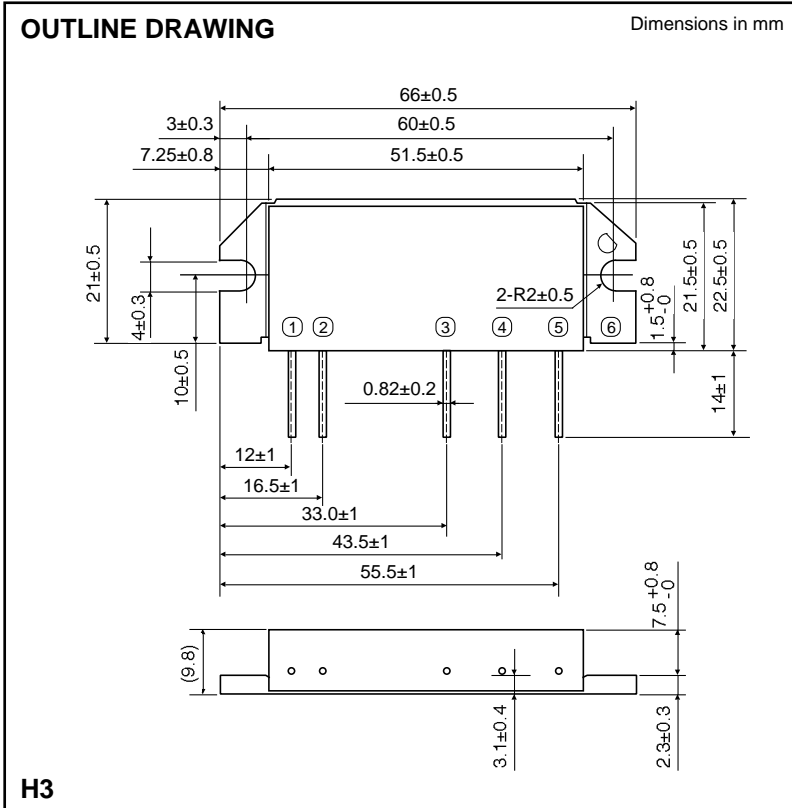


MITSUBISHI RF POWER MODULE
M68769L

400-450MHz, 12.5V, 45W, 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 ($T_c=25^\circ\text{C}$ unless otherwise noted)

| Symbol | Parameter | Conditions | Ratings | Unit |
|-----------------------|----------------------------|-----------------------|-------------|------|
| VCC | Supply voltage | ZG=ZL=50 | 17 | V |
| Icc | Total current | ZG=ZL=50 | 15 | A |
| P _{in} (max) | Input power | ZG=ZL=50 , VCC1 12.5V | 600 | mW |
| P _O (max) | Output power | ZG=ZL=50 , VCC1 12.5V | 60 | W |
| T _C (OP) | Operation case temperature | ZG=ZL=50 , VCC1 12.5V | -30 to +110 | °C |
| T _{stg} | Storage temperature | | -40 to +110 | °C |

Note. Above parameters are guaranteed independently.

ELECTRICAL CHARACTERISTICS ($T_c=25^\circ\text{C}$ unless otherwise noted)

| Symbol | Parameter | Test conditions | Limits | | Unit |
|-----------------|---------------------|--|---------------------------|-----|------|
| | | | Min | Max | |
| f | Frequency range | VCC=12.5V, P _{in} =300mW, ZG=ZL=50 | 400 | 450 | MHz |
| P _O | Output power | | 45 | | W |
| η | Total efficiency | | 35 | | % |
| 2f _o | 2nd. harmonic | | | -30 | dBc |
| 3f _o | 3rd. harmonic | | | -30 | dBc |
| in | Input VSWR | | | 2.8 | - |
| - | Load VSWR tolerance | VCC=15.2V, P _O =45W(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.