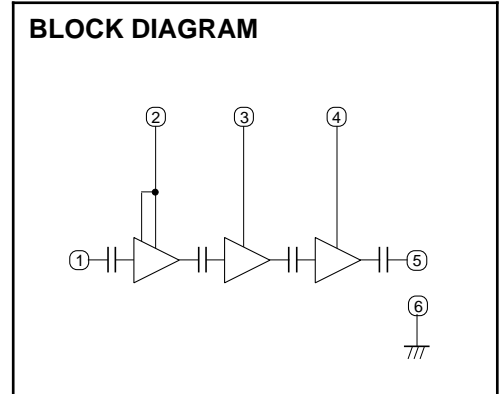
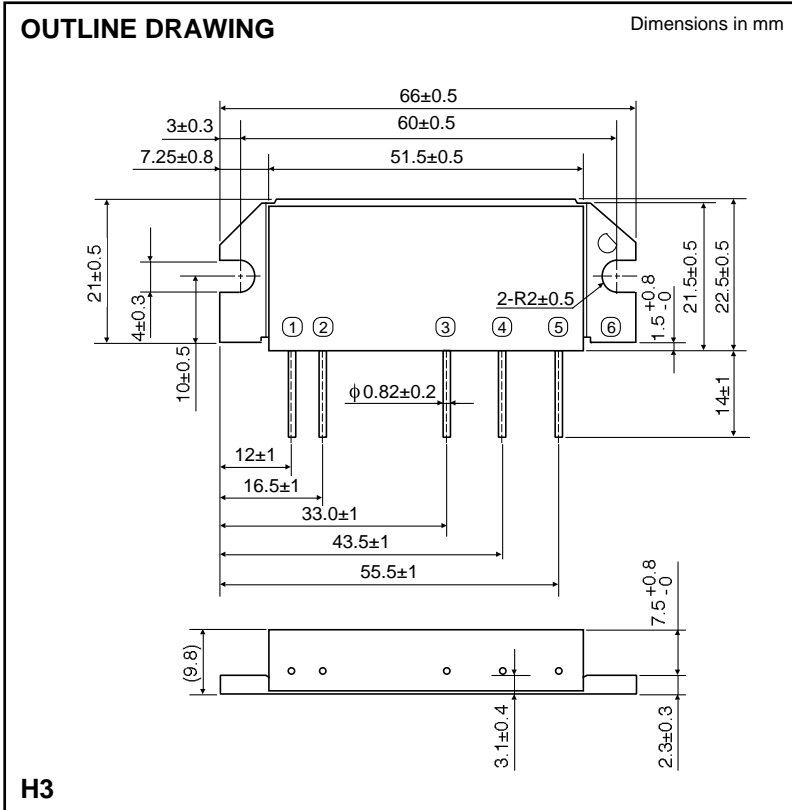


MITSUBISHI RF POWER MODULE
M68762H

440-490MHz, 12.5V, 30W, 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 | 10 | 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 | 40 | 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 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 | | 440 | 490 | MHz | |
| P _o | Output power | Vcc=12.5V, P _{in} =300mW, ZG=ZL=50 | 30 | | W | |
| η | Total efficiency | | 40 | | % | |
| 2fo | 2nd. harmonic | | | -30 | | dBc |
| 3fo | 3rd. harmonic | | | -30 | | dBc |
| in | Input VSWR | | | | 2.8 | - |
| - | Load VSWR tolerance | Vcc=15.2V, P _o =30W (P _{in} :Controlled), ZG=50 , Load VSWR=20:1 (All phase) | No degradation or destroy | | - | |

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

TYPICAL PERFORMANCE DATA

