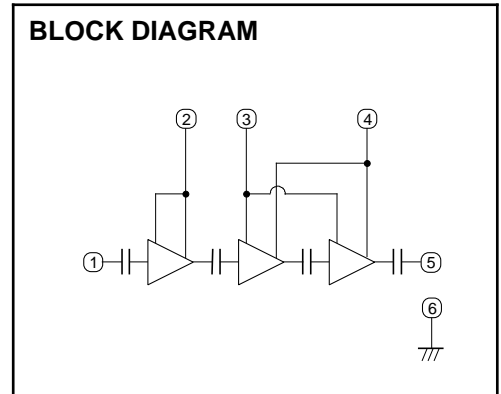
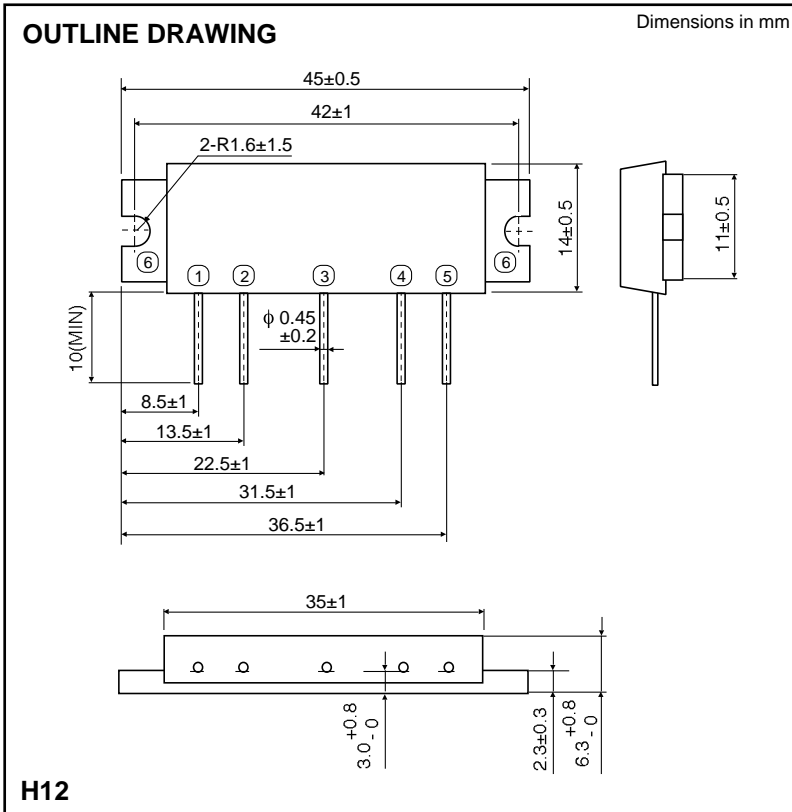


MITSUBISHI RF POWER MODULE
M68763H

230-250MHz, 7.2V, 5.3W, FM PORTABLE RADIO



- PIN:
- ① Pin : RF INPUT
 - ② VCC1: 1st. DC SUPPLY
 - ③ VBB : BASE BIAS SUPPLY
 - ④ VCC2: 2nd. 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 | VBB 5V, ZG=ZL=50 | 10 | V |
| VBB | Base bias | VCC 7.2V, ZG=ZL=50 | 5.5 | V |
| IC | Total current | ZG=ZL=50 | 4 | A |
| P _{in} (max) | Input power | ZG=ZL=50, VCC1 7.2V | 20 | mW |
| P _O (max) | Output power | ZG=ZL=50, VCC1 7.2V | 10 | W |
| T _C (OP) | Operation case temperature | ZG=ZL=50, VCC1 7.2V | -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 | P _{in} =10mW, VBB=5V, VCC1=VCC2=7.2V, ZG=ZL=50 | 230 | 250 | MHz |
| P _O | Output power | | 5.3 | | W |
| η | Total efficiency | | 35 | | % |
| 2f _o | 2nd. harmonic | | | -25 | dBc |
| 3f _o | 3rd. harmonic | | | -30 | dBc |
| in | Input VSWR | | | 3.5 | — |
| — | Load VSWR tolerance | VCC2=9V, VBB=5V, P _{in} =10mW, P _O =5.3W (VCC1 : 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.