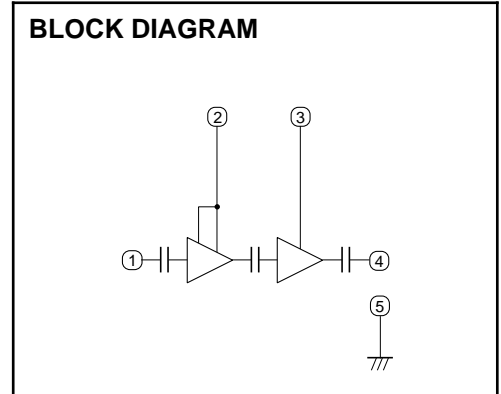
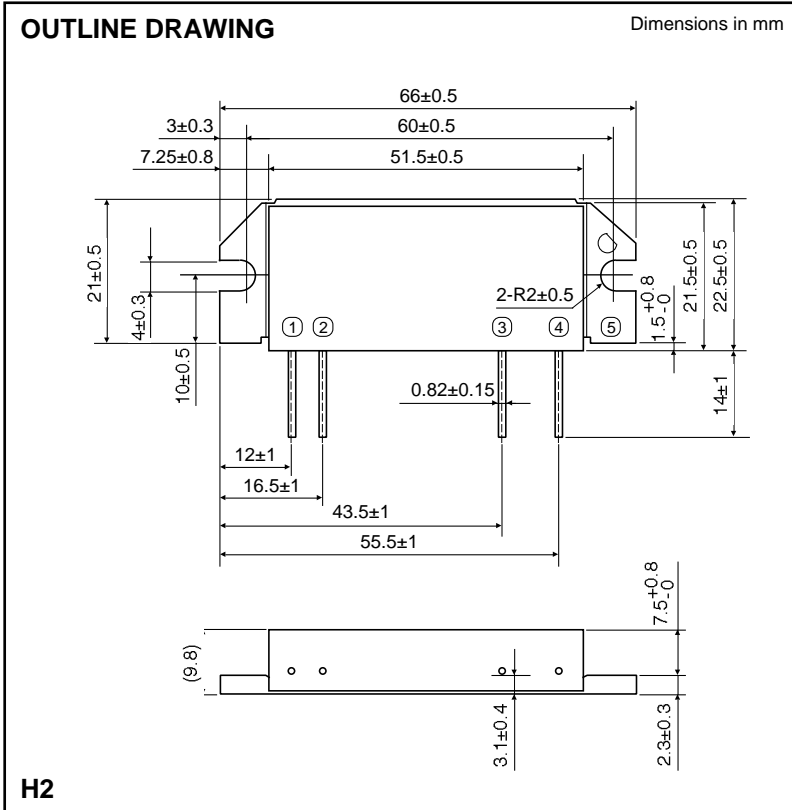


MITSUBISHI RF POWER MODULE
M68702H

150-175MHz, 12.5V, 60W, FM MOBILE RADIO



- PIN:
- ① Pin : RF INPUT
 - ② Vcc1: 1st. DC SUPPLY
 - ③ Vcc2: 2nd. DC SUPPLY
 - ④ PO : RF OUTPUT
 - ⑤ 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 | 20 | A |
| P _{in} (max) | Input power | f=150-175MHz, ZG=ZL=50, Vcc1 12.5V | 600 | mW |
| P _O (max) | Output power | Ditto | 75 | W |
| T _C (OP) | Operation case temperature | Ditto | -30 to +110 | °C |
| T _{stg} | Storage temperature | | -40 to +110 | °C |

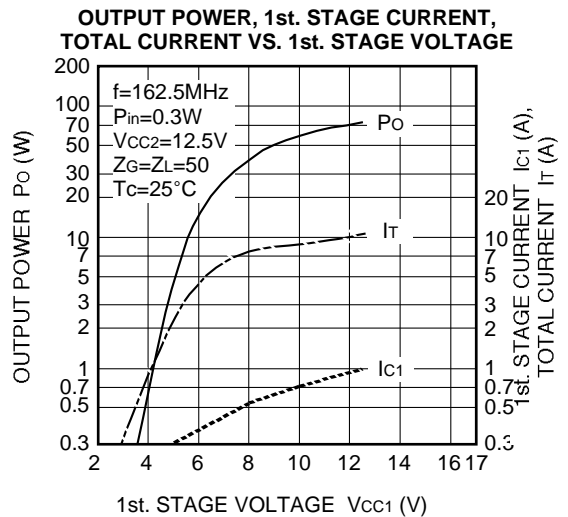
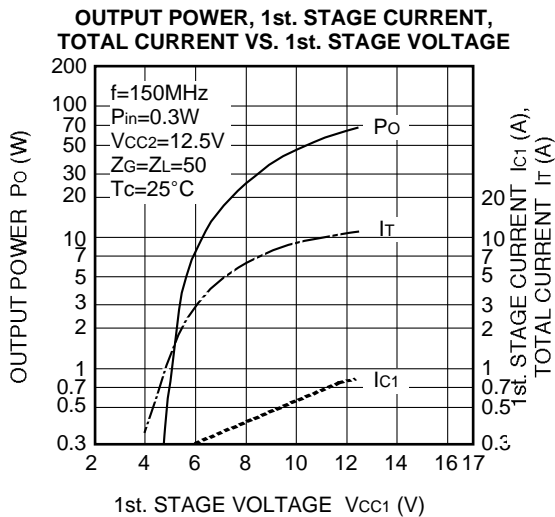
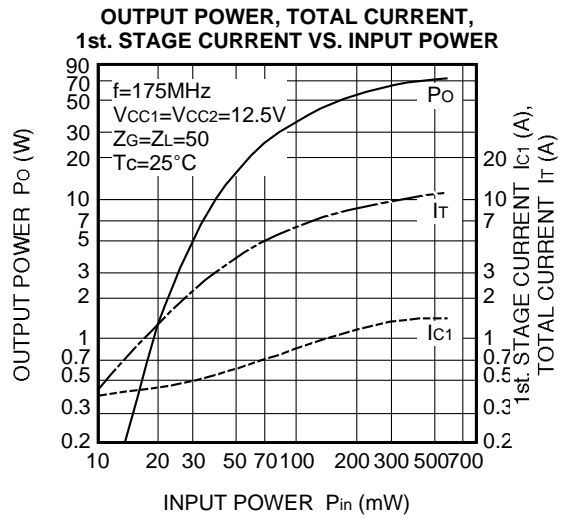
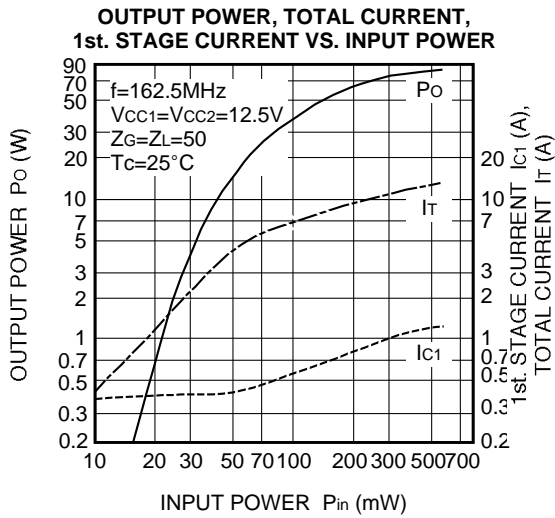
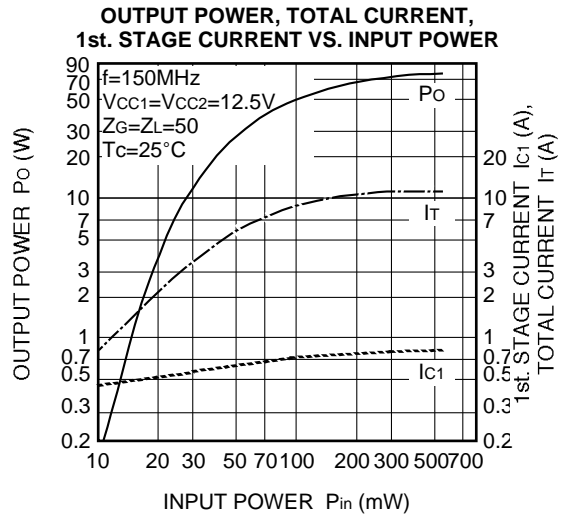
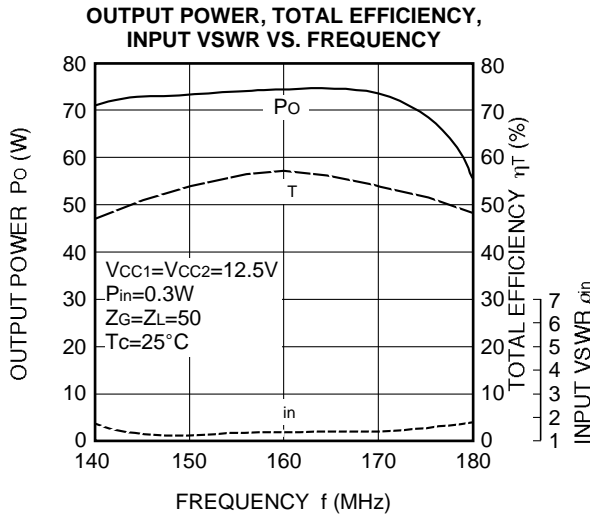
Note. Above parameters are guaranteed independently.

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

| Symbol | Parameter | Test conditions | Limits | | Unit |
|----------------|---------------------|--|---------------------------|-----|------|
| | | | Min | Max | |
| f | Frequency range | Vcc1=Vcc2=12.5V, P _{in} =300mW, ZG=ZL=50 | 150 | 175 | MHz |
| P _O | Output power | | 60 | | W |
| η | Total efficiency | | 45 | | % |
| 2fo | 2nd. harmonic | | | -30 | dBc |
| 3fo | 3rd. harmonic | | | -30 | dBc |
| in | Input VSWR | | | 3 | - |
| - | Load VSWR tolerance | Vcc1=Vcc2=15.2V, P _O =60W (P _{in} :controlled), ZG=50, Load VSWR=8.8:1 (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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