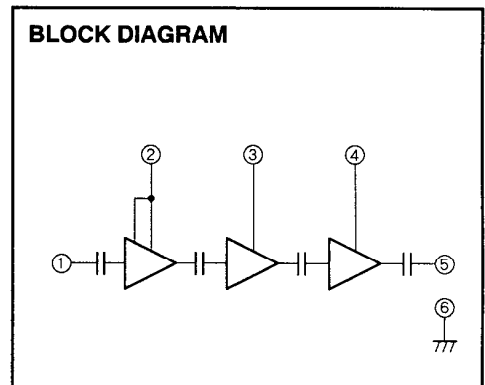
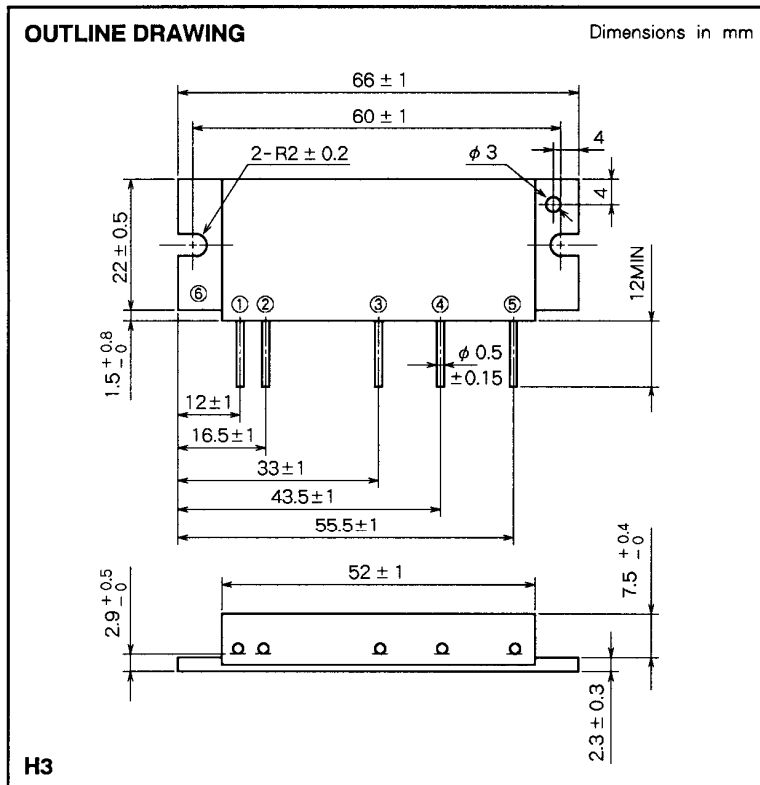


M57752

430-450MHz, 12.5V, 13W, 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 °C unless otherwise noted)

| Symbol | Parameter | Conditions | Ratings | Unit |
|----------------------|----------------------------|--|-------------|------|
| V _{cc} | Supply voltage | | 17 | V |
| I _{cc} | Total current | | 5 | A |
| P _{in(max)} | Input power | Z _G = Z _L = 50 Ω | 0.4 | W |
| P _{o(max)} | Output power | Z _G = Z _L = 50 Ω | 20 | W |
| T _{c(OP)} | Operation case temperature | | - 30 to 110 | °C |
| T _{stg} | Storage temperature | | - 40 to 110 | °C |

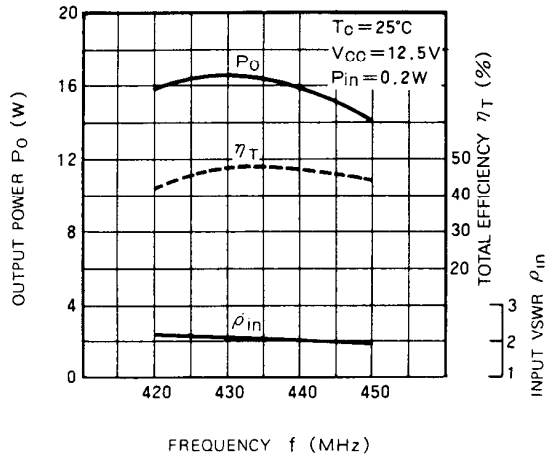
Note. Above parameters are guaranteed independently.

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

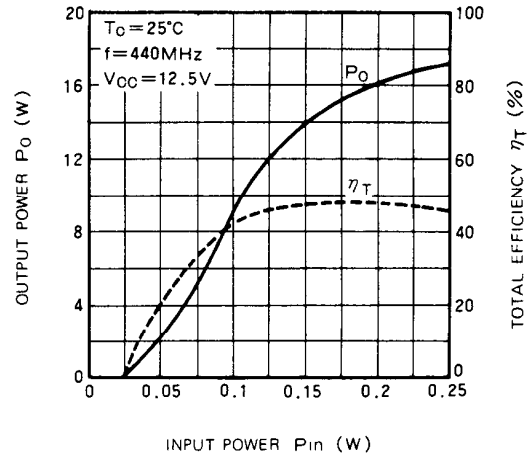
| Symbol | Parameter | Test conditions | Limits | | Unit | |
|-----------------|---------------------|--|---------------------------|------|------|-----|
| | | | Min | Max | | |
| f | Frequency range | | 430 | 450 | MHz | |
| P _o | Output power | P _{in} = 0.2W V _{cc} = 12.5V Z _G = Z _L = 50 Ω | 13 | | W | |
| η _T | Total efficiency | | 40 | | % | |
| 2f _o | 2nd. harmonic | | | - 30 | | dBc |
| 3f _o | 3rd. harmonic | | | - 30 | | dBc |
| ρ _{in} | Input VSWR | | | 2.8 | | - |
| - | Load VSWR tolerance | V _{cc} = 15.2V, P _o = 13W (P _{in} : controlled) Load VSWR = 20 : 1 (All phase), Z _G = 50Ω | No degradation or destroy | | - | |

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

TYPICAL PERFORMANCE DATA
OUTPUT POWER, TOTAL EFFICIENCY,
INPUT VSWR VS. FREQUENCY



OUTPUT POWER, TOTAL
EFFICIENCY VS. INPUT POWER



INPUT IMPEDANCE VS. FREQUENCY

