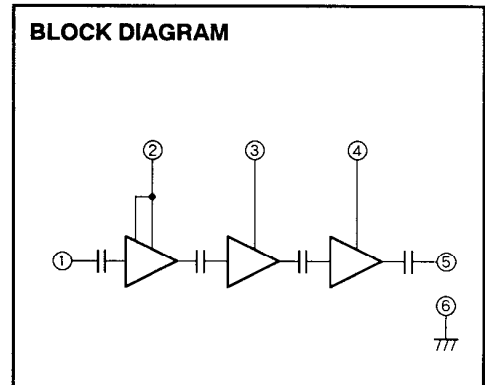
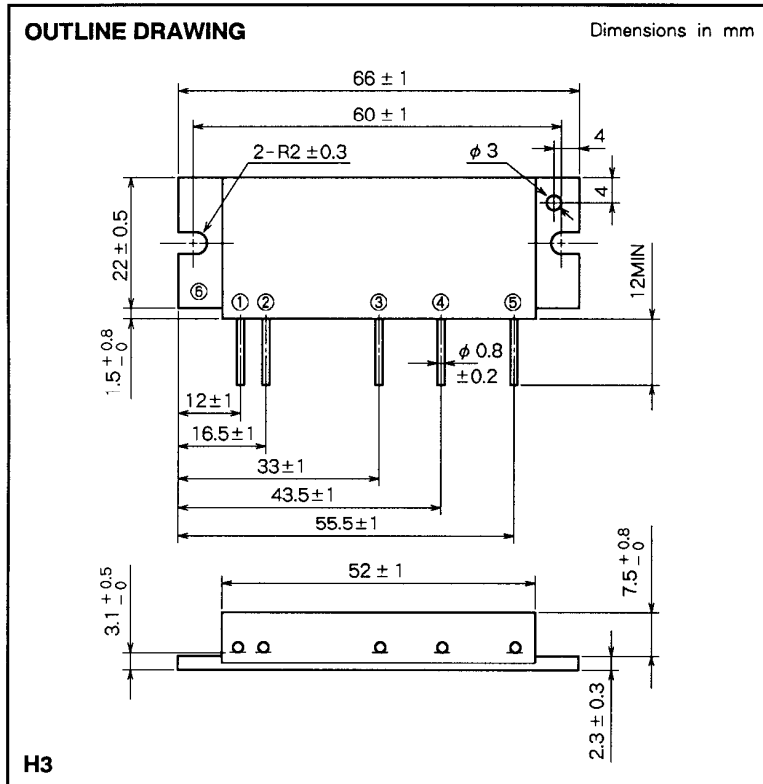


M57788UH

470-490MHz, 12.5V, 40W, 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 _{cc1} | Supply voltage | | 16 | V |
| V _{cc2,3} | | 17 | V | |
| I _{cc} | Total current | | 12 | A |
| P _{in(max)} | Input power | Z _G = Z _L = 50 Ω | 0.5 | W |
| P _{O(max)} | Output power | Z _G = Z _L = 50 Ω | 50 | 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 | | 470 | 490 | MHz | |
| P _o | Output power | P _{in} = 0.3W V _{cc} = 12.5V Z _G = Z _L = 50 Ω | 40 | | W | |
| η _T | Total efficiency | | 40 | | % | |
| 2f _o | 2nd. harmonic | | | - 30 | | dBc |
| 3f _o | 3rd. harmonic | | | - 30 | | dBc |
| ρ _{in} | Input VSWR | | | 3.5 | | - |
| - | Load VSWR tolerance | V _{cc} = 15.2V, P _o = 40W (P _{in} : controlled) Load VSWR = 8.8 : 1 (All phase), Z _G = 50 Ω | No degradation or destroy | | - | |

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