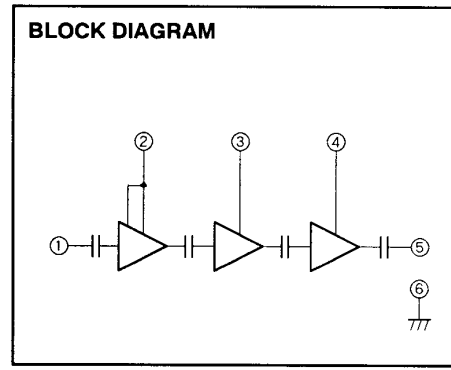
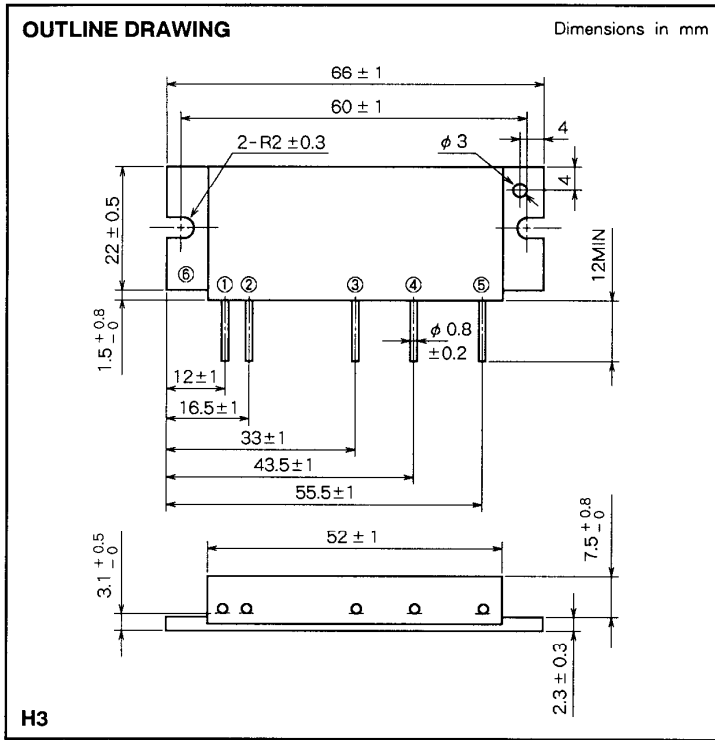


M57788H

450-470MHz, 12.5V, 40W, FM MOBILE RADIO



- PIN :
- ① P_{in} : RF INPUT
 - ② V_{CC1} : 1st. DC SUPPLY
 - ③ V_{CC2} : 2nd. DC SUPPLY
 - ④ V_{CC3} : 3rd. DC SUPPLY
 - ⑤ P_o : 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 _{CO(P)}	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	P _{in} = 0.3W V _{CC} = 12.5V Z _G = Z _L = 50 Ω	450	470	MHz
P _o	Output power		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.

TYPICAL PERFORMANCE DATA

