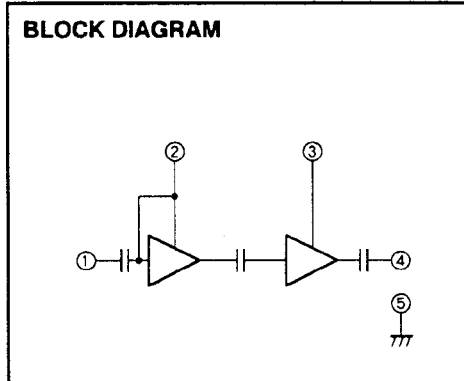
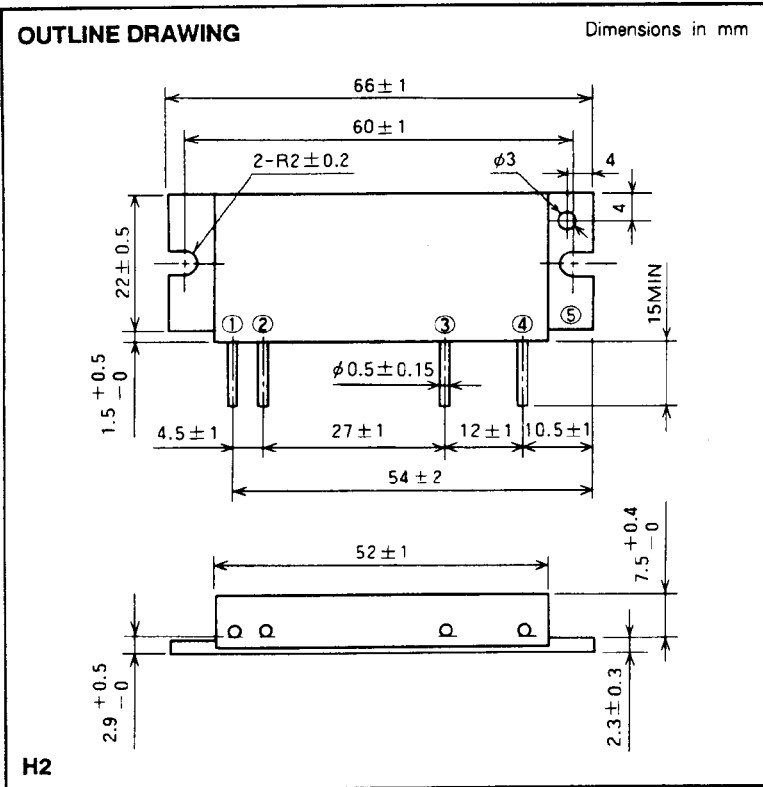


M68729

220-245MHz, 12.5V, 30W, 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 (T_C = 25°C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
V _{CC}	Supply voltage		17	V
I _{CC}	Total current		10	A
P _{in(max)}	Input power	V _{CC1} ≤ 12.5V, Z _G = Z _L = 50Ω	600	mW
P _{o(max)}	Output power	Z _G = Z _L = 50Ω	40	W
T _{C(OP)}	Operation case temperature	Z _G = Z _L = 50Ω	- 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	V _{CC} = 12.5V P _{in} = 300mW Z _G = Z _L = 50Ω	220	245	MHz
P _o	Output power		30		W
η _T	Total efficiency		40		%
2f _o	2nd. harmonic			- 30	dBc
3f _o	3rd. harmonic			- 30	dBc
ρ _{in}	Input VSWR			3	-
-	Load VSWR tolerance	V _{CC} = 15.2V P _o = 30W (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.