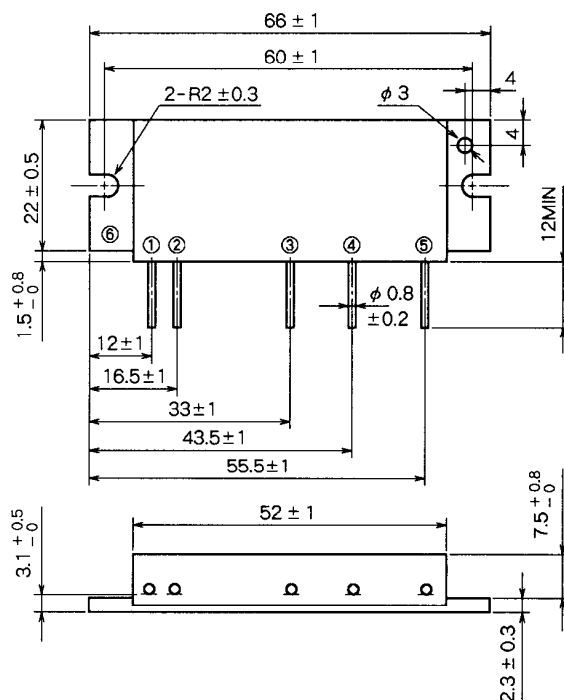


M57729L

400-420MHz, 12.5V, 30W, FM MOBILE RADIO

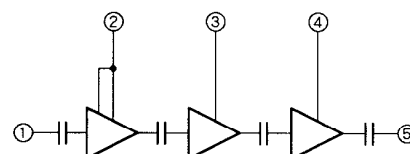
OUTLINE DRAWING

Dimensions in mm



H3

BLOCK DIAGRAM



PIN :

- ①Pin : RF INPUT
②VCC1 : 1st. DC SUPPLY
③VCC2 : 2nd. DC SUPPLY
④VCC3 : 3rd. DC SUPPLY
⑤Po : RF OUTPUT
⑥GND : 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	Z _G = Z _L = 50 Ω	0.4	W
P _{O(max)}	Output power	Z _G = Z _L = 50 Ω	40	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	P _{in} = 0.3W V _{CC} = 12.5V Z _G = Z _L = 50 Ω	400	420	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			2.8	-
-	Load VSWR tolerance	V _{CC} = 15.2V, P _o = 30W (P _{in} : controlled) Load VSWR=20:1 (All phase), 2sec. Z _G = 50 Ω	No degradation or destroy		-

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