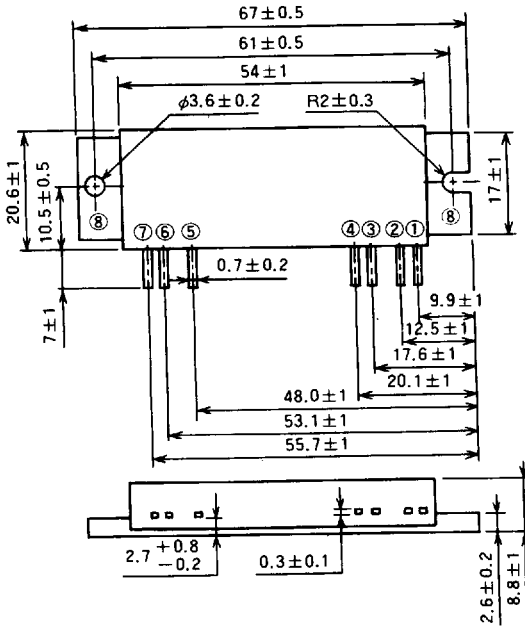


M67729L2

400-420MHz, 12.5V, 20W, FM MOBILE RADIO

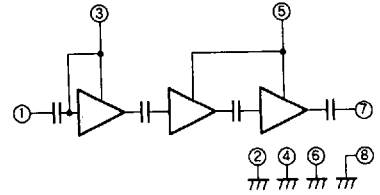
OUTLINE DRAWING

Dimensions in mm



H18

BLOCK DIAGRAM



PIN :

- ① Pin : RF INPUT
- ② GND
- ③ Vcc1 : 1st. DC SUPPLY
- ④ GND
- ⑤ Vcc2 : 2nd. DC SUPPLY
- ⑥ GND
- ⑦ Po : RF OUTPUT
- ⑧ GND : FIN

ABSOLUTE MAXIMUM RATINGS (T_c = 25°C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
V _{cc}	Supply voltage		16	V
I _{cc}	Total current		6	A
P _{in(max)}	Input power	Z _G = Z _L = 50 Ω, V _{cc1} ≤ 12.5V	0.3	W
P _{o(max)}	Output power	Z _G = Z _L = 50 Ω	30	W
T _{c(OP)}	Operation case temperature		- 30 to 100	°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} = 0.15W V _{cc} = 12.5V Z _G = Z _L = 50 Ω	400	420	MHz
P _o	Output power		20		W
η _T	Total efficiency		35		%
2f _o	2nd. harmonic			- 30	dBc
3f _o	3rd. harmonic			- 30	dBc
ρ _{in}	Input VSWR			2.8	-
-	Load VSWR tolerance	V _{cc} = 15.5V, P _o = 25W (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.