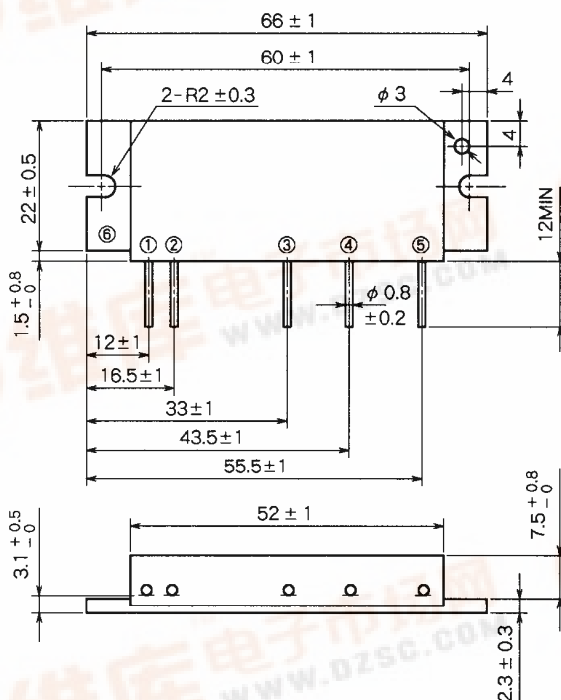


M57729GL

326-346MHz, 12.5V, 30W, FM MOBILE RADIO

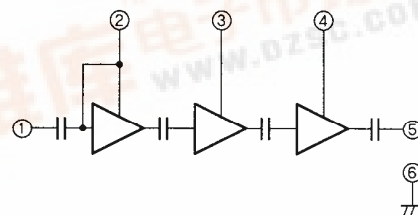
OUTLINE DRAWING

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	V _{CC1} ≤ 12.5V, Z _G = Z _L = 50 Ω	600	mW
P _{O(max)}	Output power	V _{CC1} ≤ 12.5V, Z _G = Z _L = 50 Ω	40	W
T _{C(OP)}	Operation case temperature	V _{CC1} ≤ 12.5V, Z _G = Z _L = 50 Ω	– 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	$V_{CC1} = V_{CC2} = 12.5V$ $P_{in} = 300mW$ $Z_G = Z_L = 50 \Omega$	326	346	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			3.3	-
-	Load VSWR tolerance	$V_{CC1} = V_{CC2} = 15.2V$ $P_o = 30W$ (P_{in} : controlled) Load VSWR $\geq 20:1$ (All phase), $Z_G = 50\Omega$	No degradation or destroy		-

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