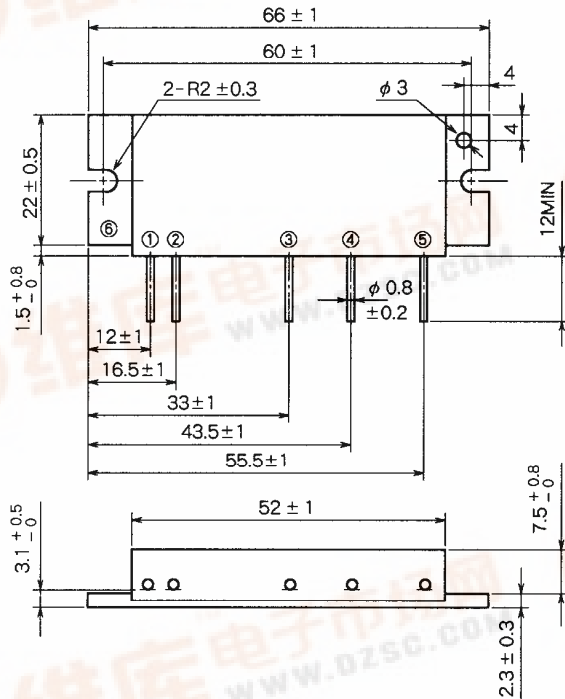
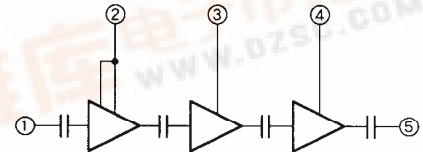


M57729SH

490-512MHz, 12.5V, 30W, FM MOBILE RADIO

OUTLINE DRAWING

Dimensions in mm

**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 ($T_c = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage		17	V
Icc	Total current		10	A
P _{in(max)}	Input power	$Z_G = Z_L = 50\ \Omega$	0.6	W
P _{o(max)}	Output power	$Z_G = Z_L = 50\ \Omega$	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 ($T_c = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		490	512	MHz
P _o	Output power	P _{in} = 0.3W Vcc = 12.5V Z _G = Z _L = 50 Ω	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	Vcc = 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.