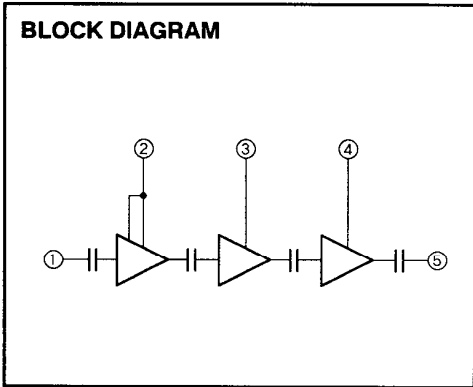
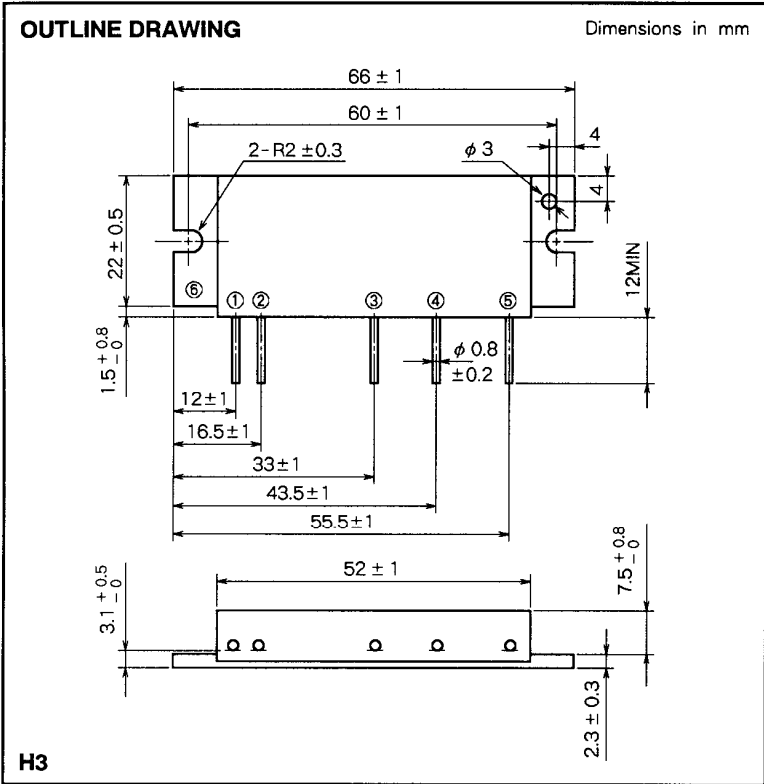


M57729UL

380-400MHz, 12.5V, 30W, FM MOBILE RADIO



- PIN :
- ① P_{in} : RF INPUT
 - ② V_{cc1} : 1st. DC SUPPLY
 - ③ V_{cc2} : 2nd. DC SUPPLY
 - ④ V_{cc3} : 3rd. DC SUPPLY
 - ⑤ P_o : RF OUTPUT
 - ⑥ GND : FIN

ABSOLUTE MAXIMUM RATINGS ($T_c = 25^\circ C$ 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	$Z_G = Z_L = 50 \Omega$	0.4	W
$P_{O(max)}$	Output power	$Z_G = Z_L = 50 \Omega$	40	W
$T_{c(OP)}$	Operation case temperature		- 30 to 110	$^\circ C$
T_{stg}	Storage temperature		- 40 to 110	$^\circ C$

Note. Above parameters are guaranteed independently.

ELECTRICAL CHARACTERISTICS ($T_c = 25^\circ C$ unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	$P_{in} = 0.3W$ $V_{cc} = 12.5V$ $Z_G = Z_L = 50 \Omega$	380	400	MHz
P_o	Output power		30		W
η_T	Total efficiency		40		%
2fo	2nd. harmonic			- 30	dBc
3fo	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. $Z_G = 50 \Omega$	No degradation or destroy		-

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