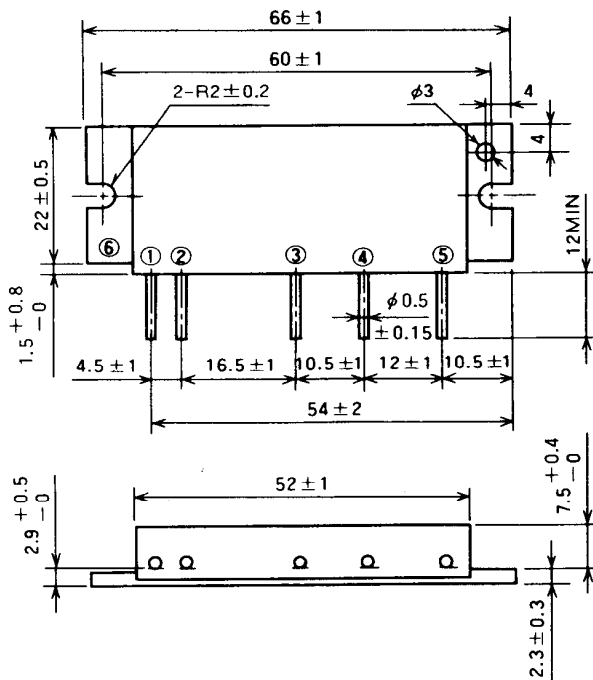


M57704SL

360-380MHz, 12.5V, 13W, FM MOBILE RADIO

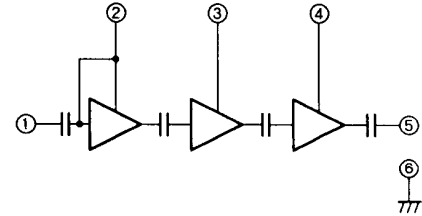
OUTLINE DRAWING

Dimensions in mm



H3

BLOCK DIAGRAM



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

Symbol	Parameter	Conditions	Ratings	Unit
V_{cc}	Supply voltage		17	V
I_{cc}	Total current		5	A
$P_{in(max)}$	Input power	$Z_G = Z_L = 50 \Omega$	0.4	W
$P_{o(max)}$	Output power	$Z_G = Z_L = 50 \Omega$	20	W
$T_{c(op)}$	Operation case temperature		- 30 to 110	$^\circ\text{C}$
T_{stg}	Storage temperature		- 40 to 110	$^\circ\text{C}$

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	$P_{in} = 0.2\text{W}$ $V_{cc} = 12.5\text{V}$ $Z_G = Z_L = 50 \Omega$	360	380	MHz
P_o	Output power		13		W
η_T	Total efficiency		35		%
$2f_o$	2nd. harmonic			- 30	dBc
ρ_{in}	Input VSWR			2.8	-
-	Load VSWR tolerance	$V_{cc} = 15.2\text{V}$, $P_o = 14\text{W}$ (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.