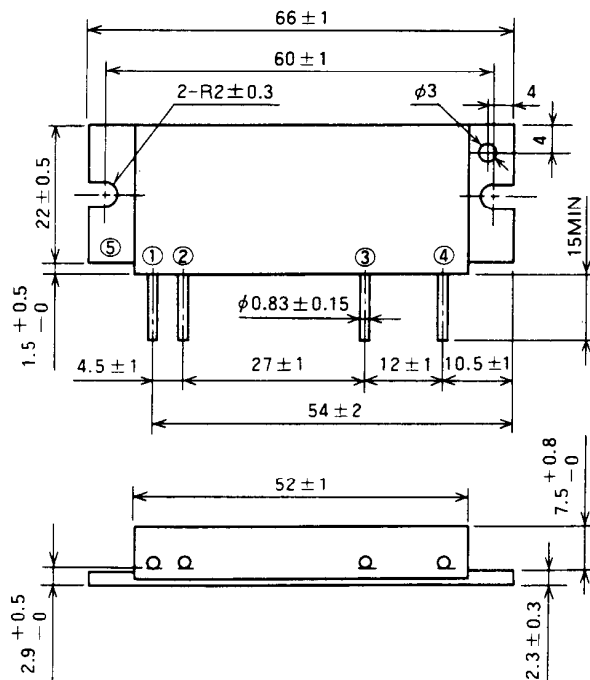


M67781H

150-175MHz, 12.5V, 40W, FM MOBILE RADIO

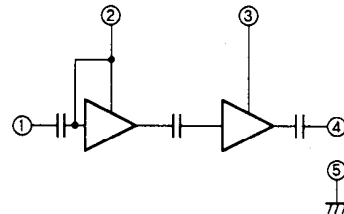
OUTLINE DRAWING

Dimensions in mm



H2

BLOCK DIAGRAM



PIN :

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

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

Symbol	Parameter	Conditions	Ratings	Unit
V _{CC1}	Supply voltage		16	V
V _{CC2}			17	V
I _{CC}	Total current		12	A
P _{in(max)}	Input power	Z _G = Z _L = 50 Ω, V _{CC1} ≤ 12.5V	0.6	W
P _{O(max)}	Output power	Z _G = Z _L = 50 Ω	50	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 °C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	$P_{in} = 0.3W$ $V_{cc} = 12.5V$ $Z_G = Z_L = 50 \Omega$	150	175	MHz
Po	Output power		40		W
η_T	Total efficiency		40		%
2fo	2nd. harmonic			- 30	dBc
3fo	3rd. harmonic			- 30	dBc
ρ_{in}	Input VSWR			3.0	-
-	Load VSWR tolerance	$V_{cc} = 15.2V$, $P_o = 40W$ (P_{in} : controlled) Load VSWR=8.8:1 (All phase), 5sec. $Z_G = 50 \Omega$	No degradation or destroy		-

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