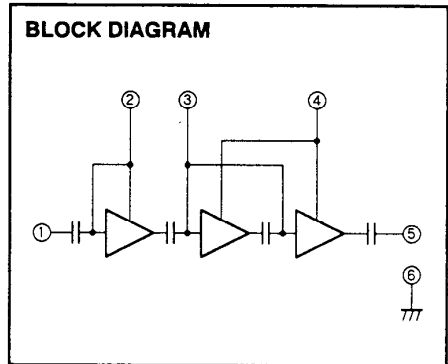
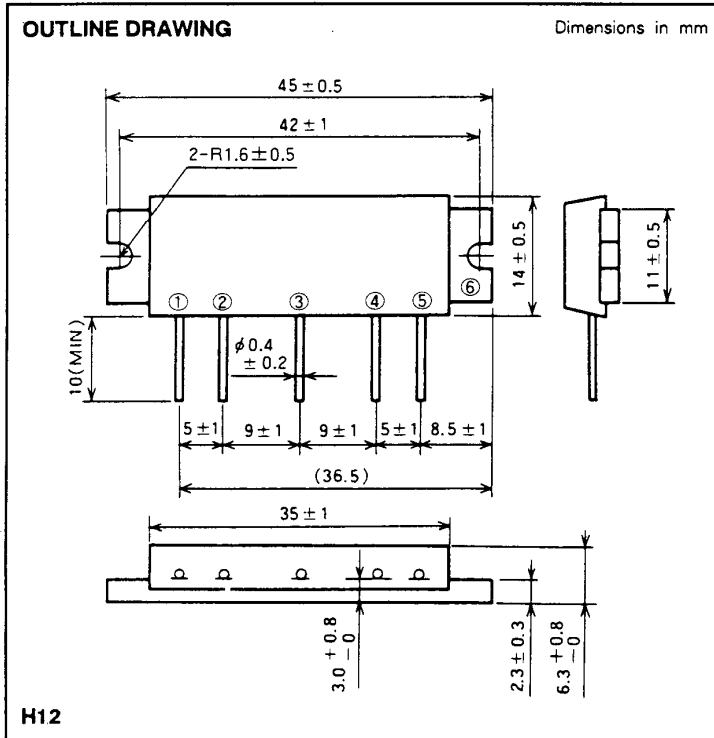


M57721M

400-450MHz, 12.5V, 7W, FM PORTABLE RADIO



PIN :
 ① Pin : RF INPUT
 ② Vcc1 : 1st. DC SUPPLY
 ③ VBB : BASE BIAS SUPPLY
 ④ Vcc2 : 2nd. DC SUPPLY
 ⑤ Po : RF OUTPUT
 ⑥ GND : FIN

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

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage		16	V
VBB	Base bias		6	V
Icc	Total current		4	A
P _{in(max)}	Input power	Vcc1 ≤ 12.5V, VBB=5V, Z _G =Z _L =50Ω	20	mW
P _{o(max)}	Output power	Z _G = Z _L = 50 Ω	10	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 (Tc = 25°C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	Vcc1 = Vcc2 = 12.5V VBB = 5V P _{in} = 10mW Z _G = Z _L = 50 Ω	400	450	MHz
P _o	Output power		7		W
η _T	Total efficiency		40		%
2fo	2nd. harmonic			- 30	dBc
3fo	3rd. harmonic			- 35	dBc
ρ _{in}	Input VSWR			2.5	-
-	Load VSWR tolerance	Vcc1 = Vcc2 = 13.2V, VBB = 5V P _o = 7W (P _{in} : controlled) Load VSWR ≥ 20 : 1 (All phase) Z _G = 50Ω	No degradation or destroy		-

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