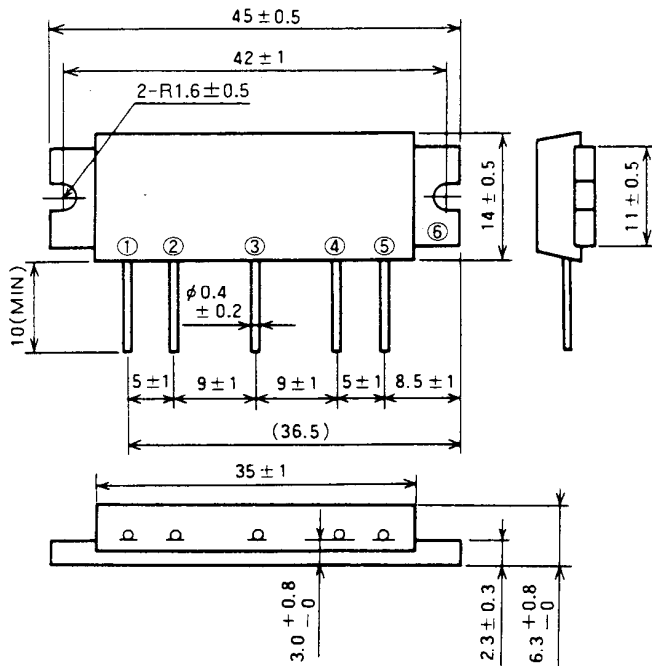


M57721UL

335-370MHz, 12.5V, 7W, FM PORTABLE RADIO

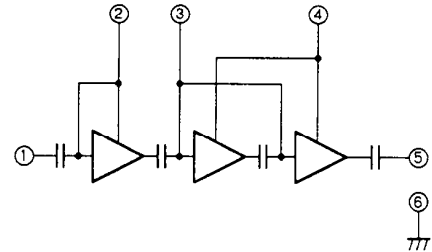
OUTLINE DRAWING

Dimensions in mm



H12

BLOCK DIAGRAM



PIN :

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

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

Symbol	Parameter	Conditions	Ratings	Unit
V _{CC}	Supply voltage		16	V
V _{BB}	Base bias		6	V
I _{CC}	Total current		4	A
P _{in(max)}	Input power	V _{CC1} ≤ 12.5V, V _{BB} = 5V, Z _G = Z _L = 50 Ω	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 (T_C = 25 °C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	V _{CC1} = V _{CC2} = 12.5V V _{BB} = 5V P _{in} = 10mW Z _G = Z _L = 50 Ω	335	370	MHz
P _o	Output power		7		W
η _T	Total efficiency		40		%
2f _o	2nd. harmonic			- 30	dBc
3f _o	3rd. harmonic			- 35	dBc
ρ _{in}	Input VSWR			2.5	-
-	Load VSWR tolerance	V _{CC1} = V _{CC2} = 13.2V, V _{BB} = 5V P _o = 7W (P _{in} : controlled) Load VSWR ≥ 20 : 1 (All phase) Z _o = 50Ω	No degradation or destroy		-

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