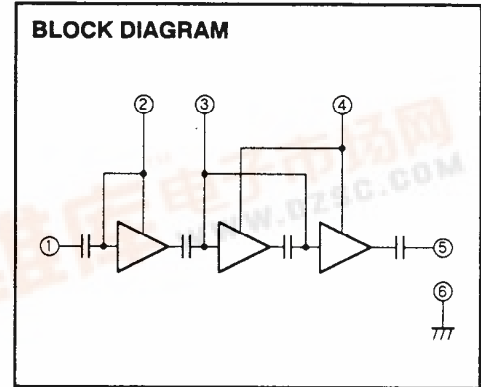
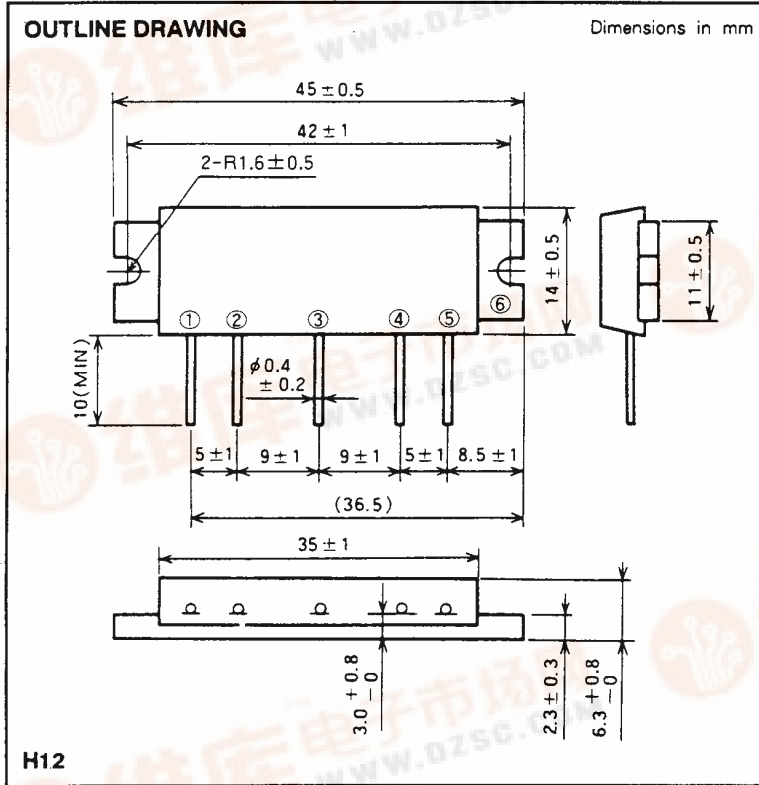


# M57721M

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 <sub>in(max)</sub>	Input power	Vcc1 ≤ 12.5V, Vbb=5V, Z <sub>G</sub> =Z <sub>L</sub> =50Ω	20	mW
P <sub>O(max)</sub>	Output power	Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	10	W
T <sub>C(OP)</sub>	Operation case temperature		- 30 to 110	°C
T <sub>stg</sub>	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 <sub>in</sub> = 10mW Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	400	450	MHz
P <sub>o</sub>	Output power		7		W
η <sub>T</sub>	Total efficiency		40		%
2fo	2nd. harmonic			- 30	dBc
3fo	3rd. harmonic			- 35	dBc
ρ <sub>in</sub>	Input VSWR			2.5	-
-	Load VSWR tolerance	Vcc1 = Vcc2 = 13.2V, Vbb = 5V P <sub>o</sub> = 7W (P <sub>in</sub> : controlled) Load VSWR ≥ 20 : 1 (All phase) Z <sub>G</sub> = 50Ω	No degradation or destroy		-

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