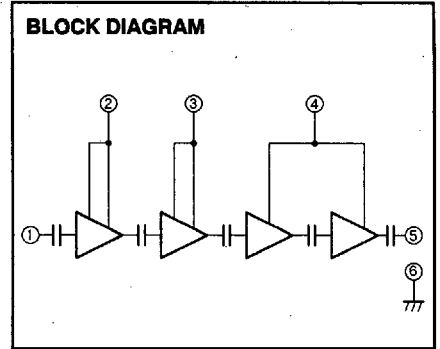
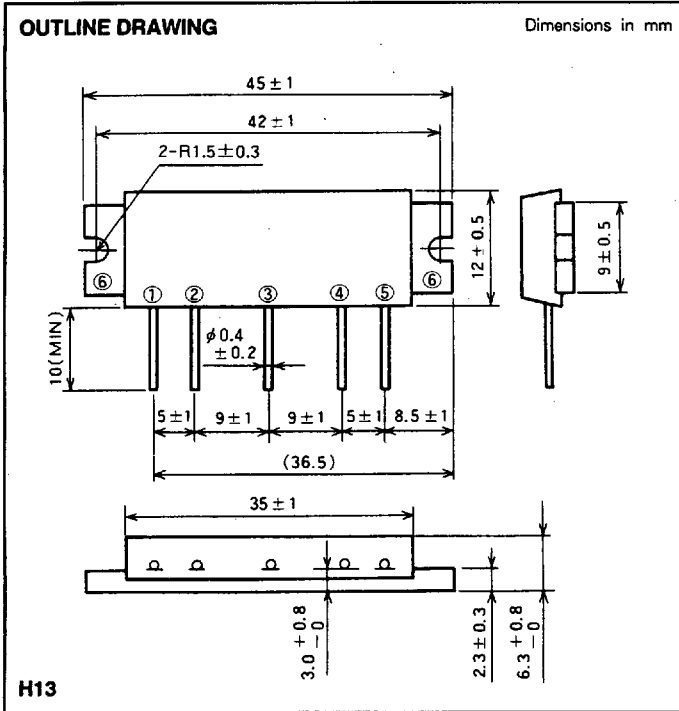


M57787

1240-1300MHz, 7.2V, 1.5W, FM PORTABLE RADIO



- PIN :
- ① Pin : RF INPUT
 - ② Vcc1 : 1st. DC SUPPLY
 - ③ Vcc2 : 2nd. DC SUPPLY
 - ④ Vcc3 : 3rd. DC SUPPLY
 - ⑤ Po : RF OUTPUT
 - ⑥ GND : FIN

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

Symbol	Parameter	Conditions	Ratings	Unit
Vcc1, 2	Supply voltage	Po ≤ 3W, Vcc3 ≤ 9V	9	V
Vcc3		Po ≤ 3W, Vcc1, 2 ≤ 7.2V	16	V
Icc	Total current		1.5	A
P _{in(max)}	Input power	Z _G = Z _L = 50Ω, Po ≤ 3W, Vcc1, 2 ≤ 7.2V	10	mW
P _{o(max)}	Output power	Z _G = Z _L = 50Ω, Vcc1, 2 ≤ 7.2V	3	W
T _{c(OP)}	Operation case temperature	Z _G = Z _L = 50Ω, Vcc1, 2 ≤ 7.2V	- 20 to 100	°C
T _{stg}	Storage temperature	Z _G = Z _L = 50Ω, Vcc1, 2 ≤ 7.2V	- 40 to 110	°C

Note. Above parameters are guaranteed independently.

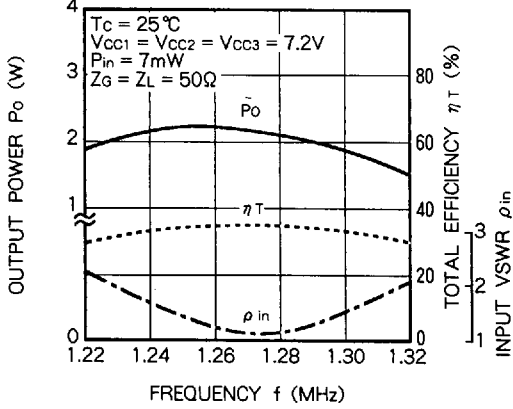
ELECTRICAL CHARACTERISTICS (Tc = 25 °C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	Vcc1 = Vcc2 = Vcc3 = 7.2V P _{in} = 7mW Z _G = Z _L = 50Ω	1.24	1.3	GHz
P _o	Output power		1.5		W
η _T	Total efficiency		28		%
2fo	2nd. harmonic			- 30	dBc
ρ _{in}	Input VSWR			3.5	-
-	Load VSWR tolerance	Vcc2 = 9V, Vcc3 = 15V, P _{in} = 7mW Po = 2W (Vcc1 : controlled) Load VSWR = 10 : 1 (All phase), Z _G = 50Ω	No degradation or destroy		-

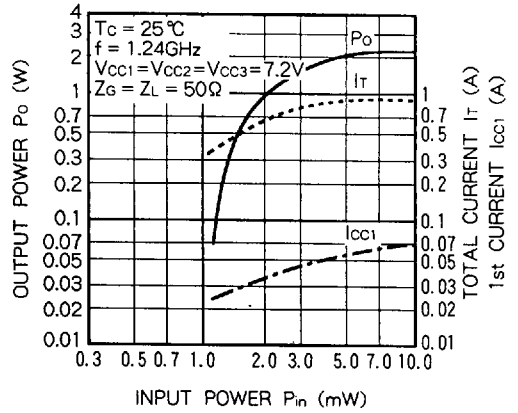
Note. Above parameters, ratings, limits and conditions are subject to change.

TYPICAL PERFORMANCE DATA

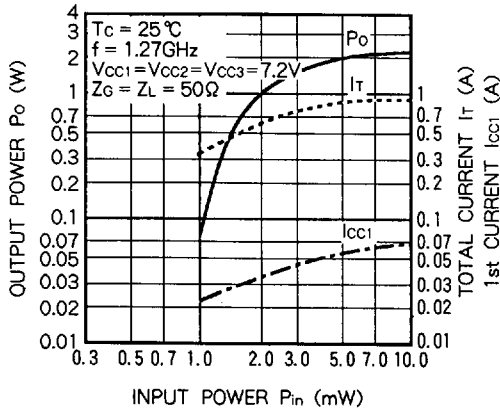
OUTPUT POWER, TOTAL EFFICIENCY, INPUT VSWR VS. FREQUENCY CHARACTERISTICS



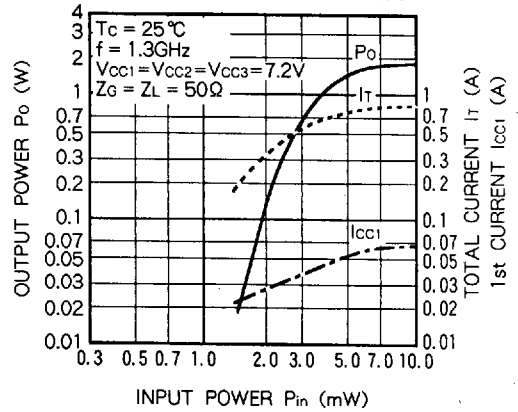
OUTPUT POWER, TOTAL CURRENT, 1st CURRENT VS. INPUT POWER CHARACTERISTICS



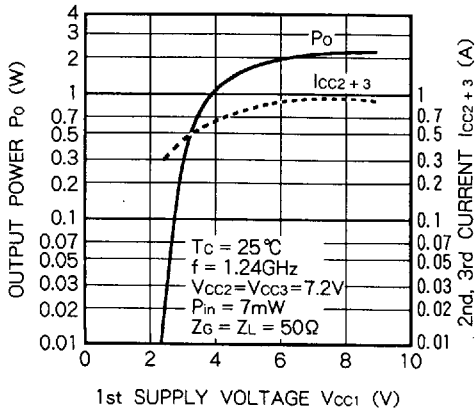
OUTPUT POWER, TOTAL CURRENT, 1st CURRENT VS. INPUT POWER CHARACTERISTICS



OUTPUT POWER, TOTAL CURRENT, 1st CURRENT VS. INPUT POWER CHARACTERISTICS



OUTPUT POWER, 2nd, 3rd CURRENT VS. 1st SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, 2nd, 3rd CURRENT VS. 1st SUPPLY VOLTAGE CHARACTERISTICS

