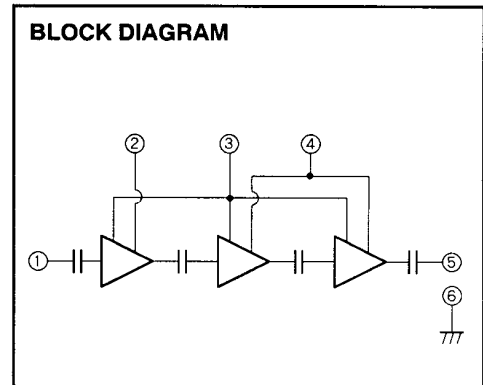
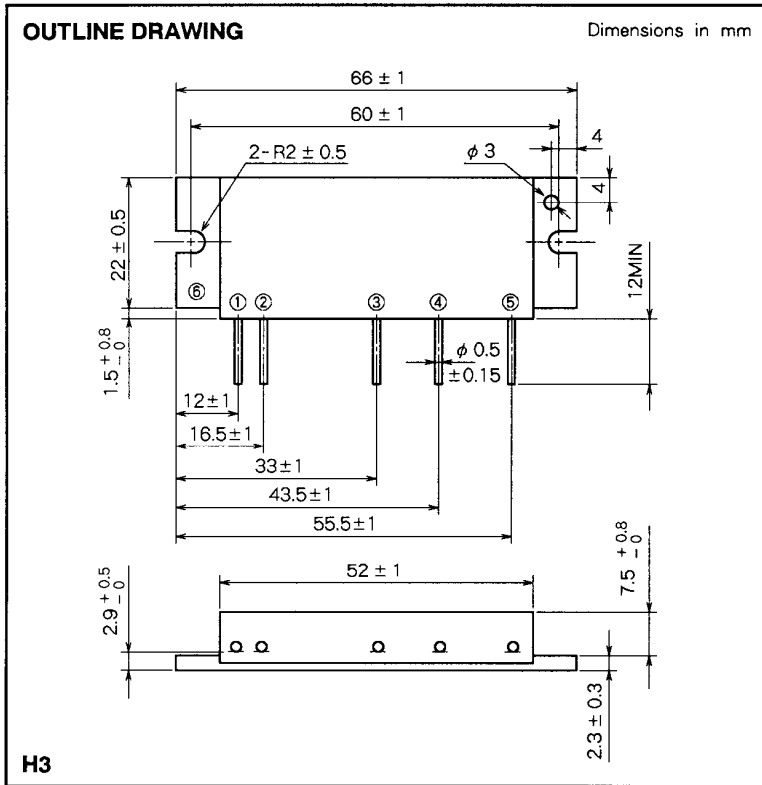


# M57762

1240-1300MHz, 12.5V, 18W, SSB MOBILE 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		17	V
VBB	Base bias		10	V
Icc	Total current		8	A
Pin(max)	Input power	VCC1=12.5V, VBB=9V, ZG=ZL=50Ω	2	W
Po(max)	Output power	ZG = ZL = 50 Ω	25	W
Tc(OP)	Operation case temperature		- 30 to 110	°C
Tstg	Storage temperature		- 40 to 110	°C

Note. Above parameters are guaranteed independently.

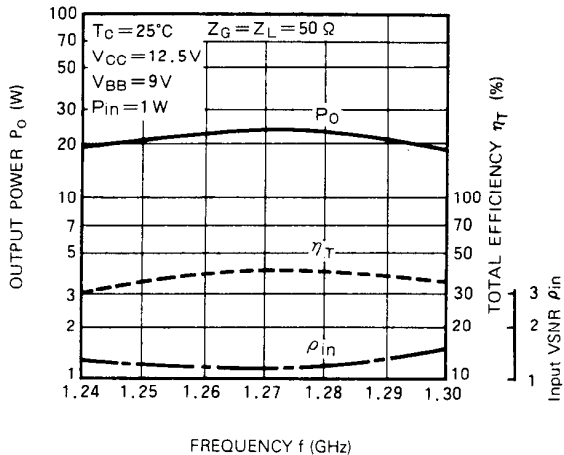
**ELECTRICAL CHARACTERISTICS** (Tc = 25 °C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	VCC1 = VCC2 = 12.5V VBB = 9V Pin = 1W ZG = ZL = 50 Ω	1240	1300	MHz
Po	Output power		18		W
ηT	Total efficiency		28		%
2fo	2nd. harmonic			- 45	dBc
ρin	Input VSWR			2.0	-
Ibb	Base bias current			500	mA
GP	Linear power gain	VCC1 = VCC2 = 12.5V, VBB = 9V, Pin = 10dBm, ZG = ZL = 50Ω	13		dB
IMD3	3rd. intermodulation distortion	VCC1=VCC2=12.5V, VBB=9V, Δf=10kHz, Po(PEP) ≤ 14W, ZG=ZL=50Ω		- 24	dBc
IMD5	5th. intermodulation distortion			- 31	dBc
-	Load VSWR tolerance	VCC1 = VCC2 = 15.2V, VBB = 9V, Po=18W(Pin : controlled), ZG=50Ω Load VSWR = 16 : 1(All phase).	No degradation or destroy		-

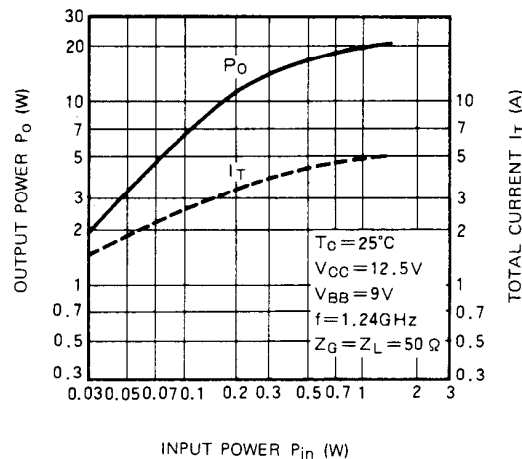
Note. Above parameters, ratings, limits and conditions are subject to change.

TYPICAL PERFORMANCE DATA

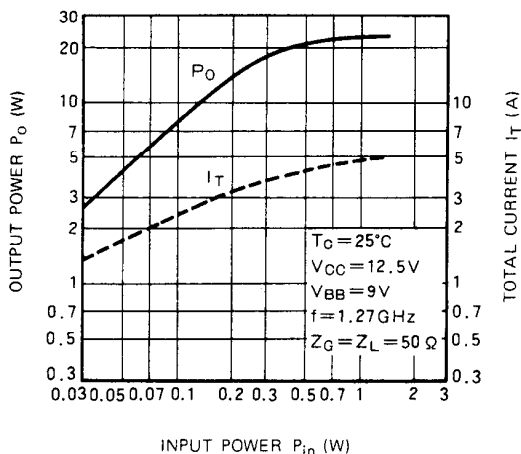
OUTPUT POWER, TOTAL EFFICIENCY, INPUT VSWR VS. FREQUENCY CHARACTERISTICS



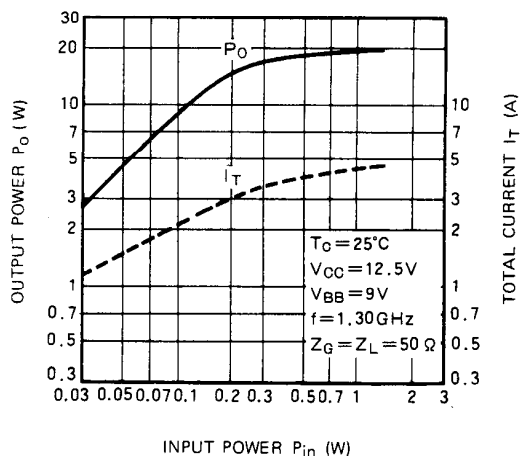
OUTPUT POWER, TOTAL CURRENT, VS. INPUT POWER CHARACTERISTICS



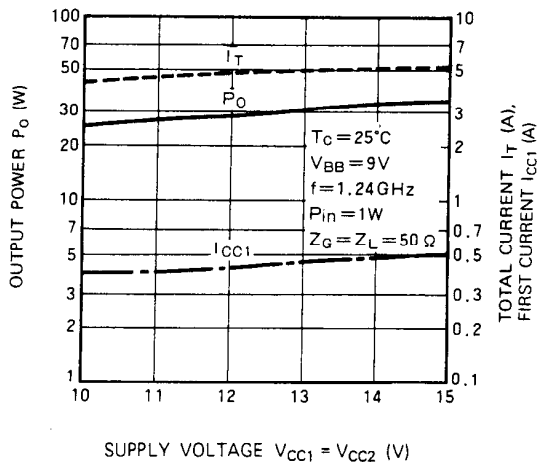
OUTPUT POWER, TOTAL CURRENT, VS. INPUT POWER CHARACTERISTICS



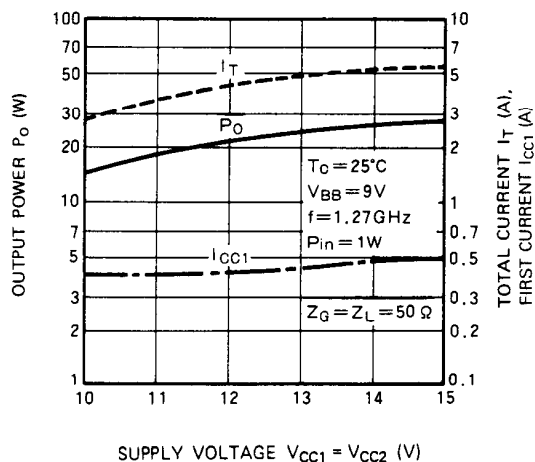
OUTPUT POWER, TOTAL CURRENT, VS. INPUT POWER CHARACTERISTICS



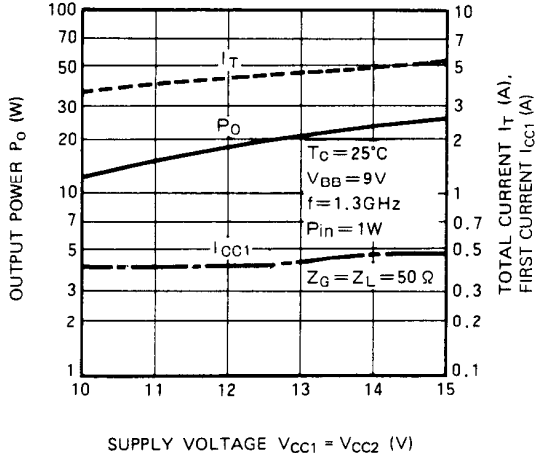
OUTPUT POWER, TOTAL CURRENT, FIRST CURRENT VS. SUPPLY VOLTAGE CHARACTERISTICS



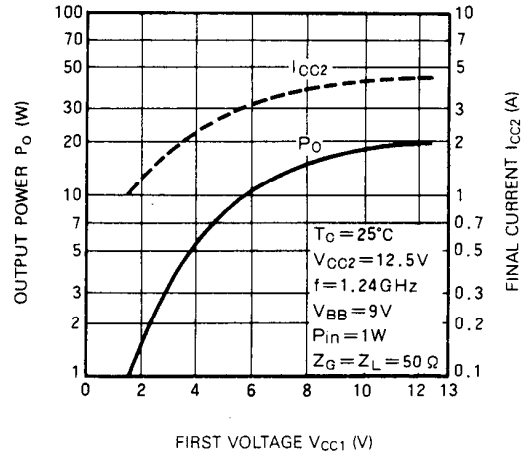
OUTPUT POWER, TOTAL CURRENT, FIRST CURRENT VS. SUPPLY VOLTAGE CHARACTERISTICS



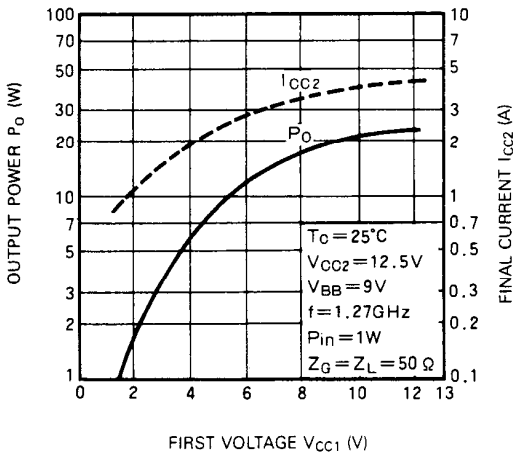
OUTPUT POWER, TOTAL CURRENT, FIRST CURRENT VS. SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, FINAL CURRENT VS. FIRST VOLTAGE CHARACTERISTICS



OUTPUT POWER, FINAL CURRENT VS. FIRST VOLTAGE CHARACTERISTICS



OUTPUT POWER, FINAL CURRENT VS. FIRST CURRENT CHARACTERISTICS

