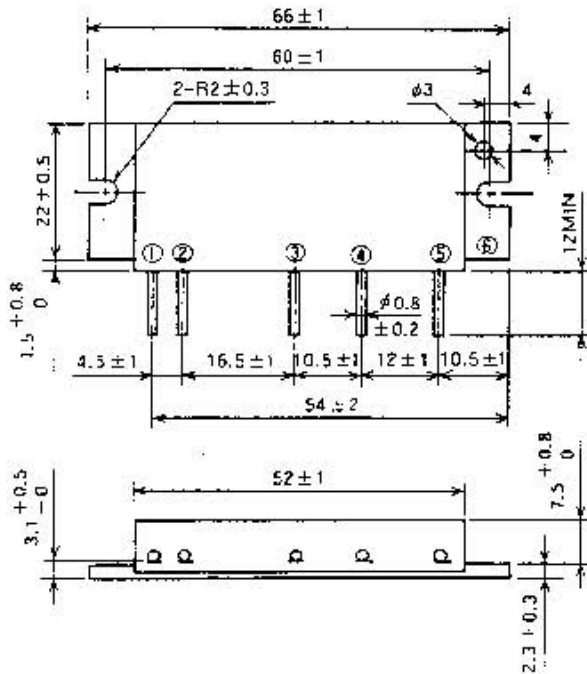


M68706

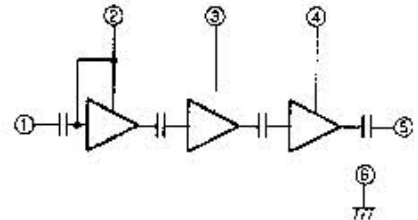
250-270MHz, 12.5V, 30W, FM MOBILE RADIO

OUTLINE DRAWING

Dimensions in mm



BLOCK DIAGRAM



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
Vcc	Supply voltage		17	V
Icc	Total current		10	A
Pin(max)	Input power	Vcc1 ≤ 12.5V, ZG = ZL = 50 Ω	600	mW
Po(max)	Output power	ZG = ZL = 50 Ω	40	W
Tc(OP)	Operation case temperature	ZG = ZL = 50 Ω	- 30 to 110	°C
Tstg	Storage temperature		- 40 to 110	°C

Note. Above parameters are guaranteed independently.

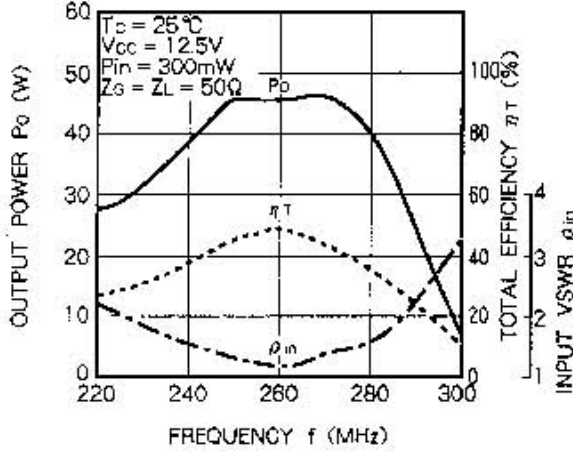
ELECTRICAL CHARACTERISTICS (Tc = 25°C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	Vcc = 12.5V Pin = 300mW ZG = ZL = 50Ω	250	270	MHz
Po	Output power		30		W
ηT	Total efficiency		40		%
2fc	2nd. harmonic			- 30	dBc
3fc	3rd. harmonic			- 30	dBc
ρin	Input VSWR			2.8	-
-	Load VSWR tolerance	Vcc = 15.2V Po = 30W(Pin : controlled) Load VSWR = 20 : 1(All phase), ZG = 50Ω	No degradation or destroy		-

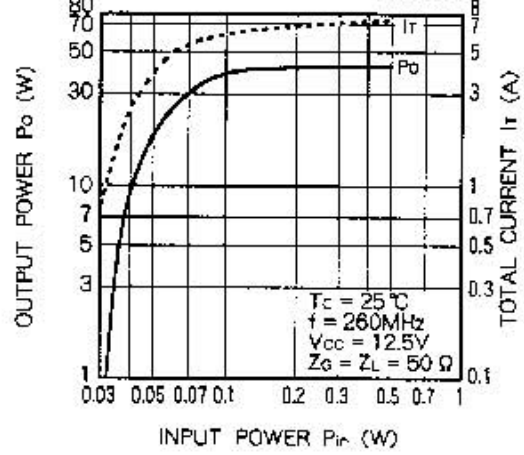
Note. Above parameters, ratings, limits and conditions are subject to change.

TYPICAL PERFORMANCE DATA

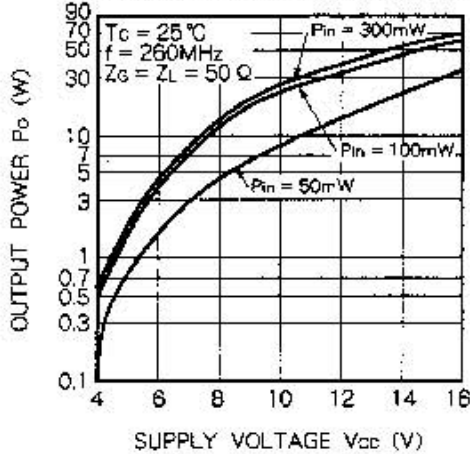
OUTPUT POWER, TOTAL EFFICIENCY, INPUT VSWR VS. FREQUENCY CHARACTERISTICS



OUTPUT POWER, TOTAL CURRENT VS. INPUT POWER CHARACTERISTICS



OUTPUT POWER VS. SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER VS. 1st SUPPLY VOLTAGE CHARACTERISTICS

