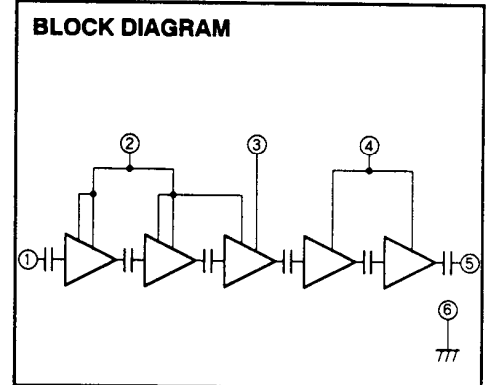
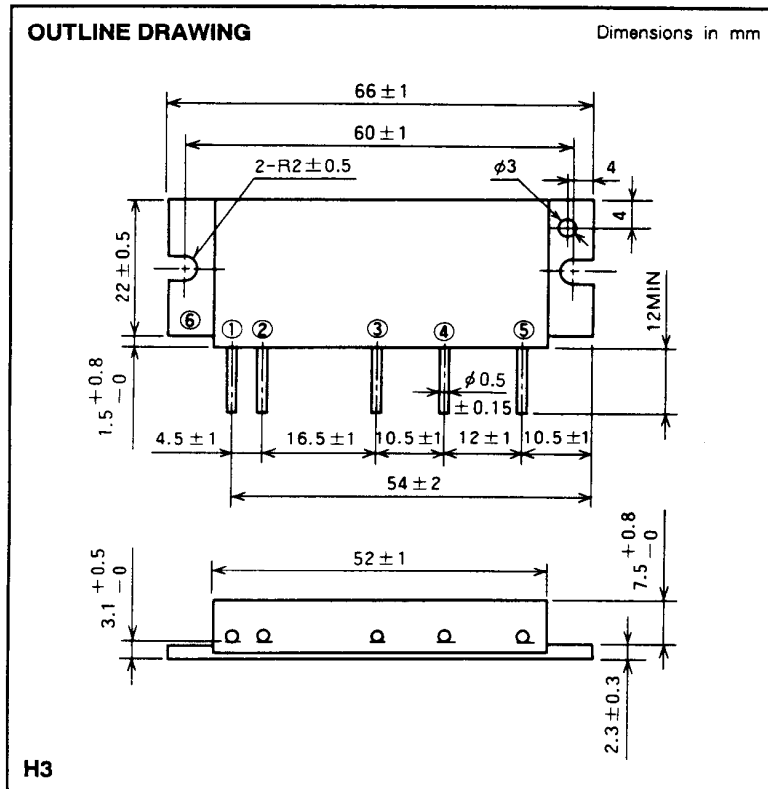


# M67769C

889-915MHz, 12.5V, 13W, FM MOBILE RADIO



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

**ABSOLUTE MAXIMUM RATINGS** (T<sub>c</sub> = 25 °C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
V <sub>cc1</sub>	Supply voltage		9	V
V <sub>cc2</sub>			15	V
V <sub>cc3</sub>			17	V
I <sub>cc</sub>	Total current		5	A
P <sub>in(max)</sub>	Input power	Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω, V <sub>cc1</sub> ≤ 8V	4	mW
P <sub>o(max)</sub>	Output power	Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	20	W
T <sub>c(OP)</sub>	Operation case temperature		- 30 to 110	°C
T <sub>stg</sub>	Storage temperature		- 40 to 110	°C

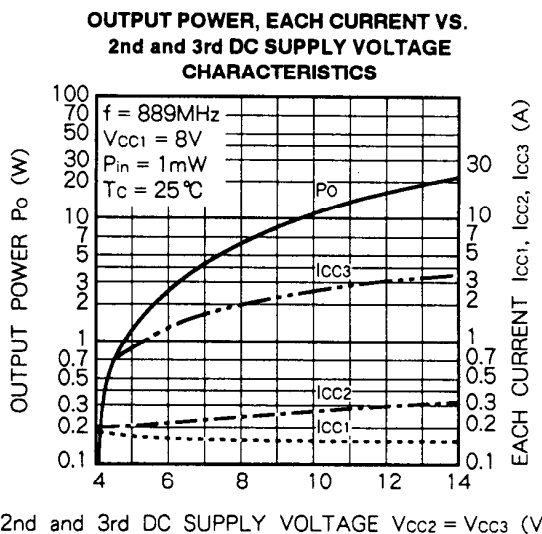
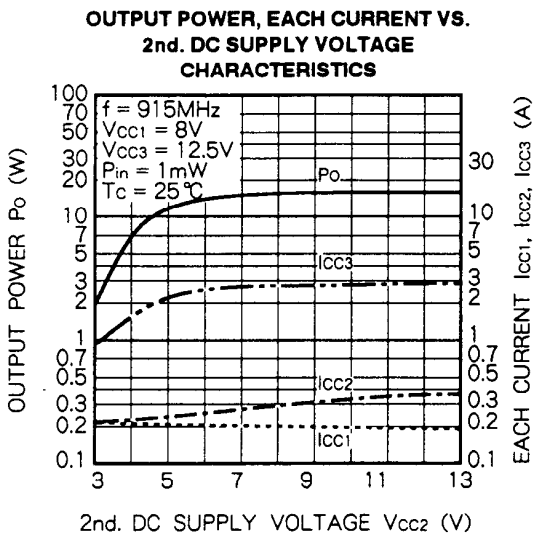
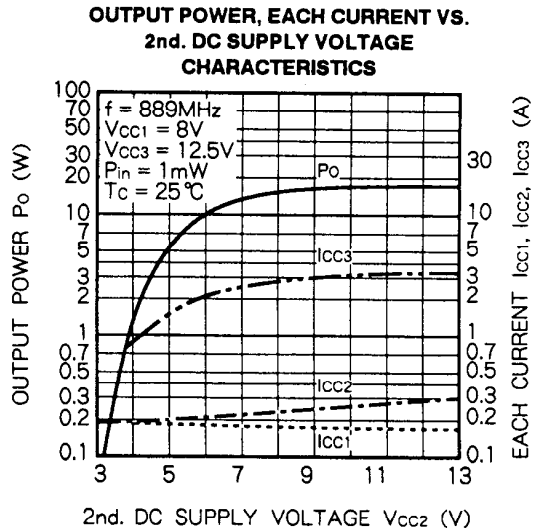
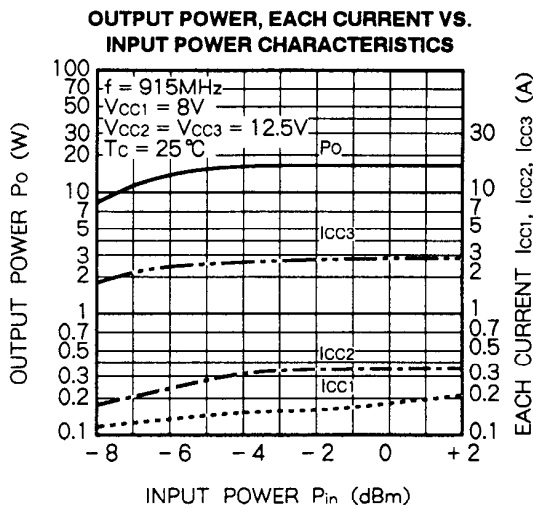
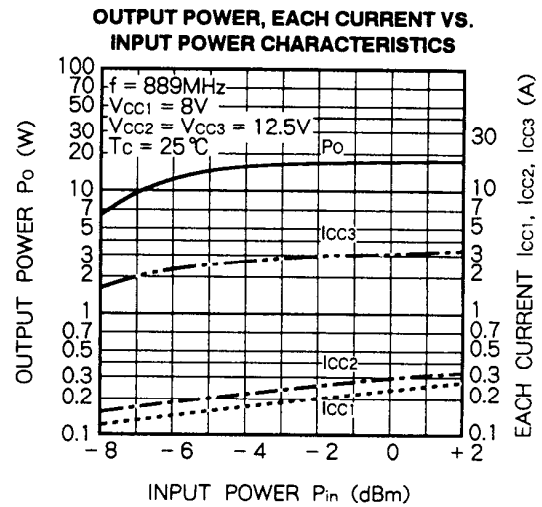
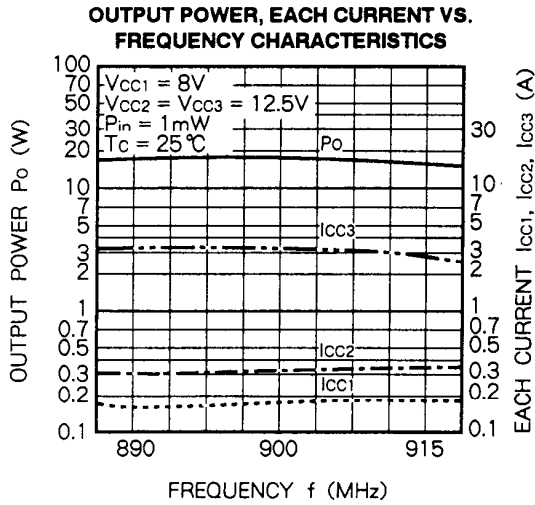
Note. Above parameters are guaranteed independently.

**ELECTRICAL CHARACTERISTICS** (T<sub>c</sub> = 25 °C unless otherwise noted)

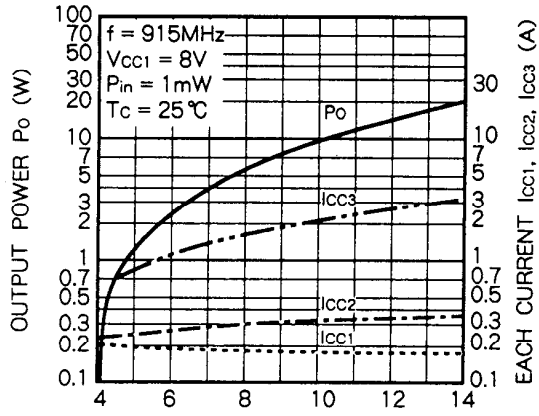
Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	V <sub>cc1</sub> = 8V V <sub>cc2</sub> = V <sub>cc3</sub> = 12.5V P <sub>in</sub> = 1mW Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	889	915	MHz
P <sub>o</sub>	Output power		13		W
η <sub>T</sub>	Total efficiency		30		%
2f <sub>o</sub>	2nd. harmonic			- 30	dBc
ρ <sub>in</sub>	Input VSWR			2.8	-
-	Load VSWR tolerance	V <sub>cc1</sub> = 8V, V <sub>cc3</sub> = 15.2V P <sub>o</sub> = 13W (V <sub>cc2</sub> : controlled) P <sub>in</sub> = 1mW Load VSWR=20:1(All phase), 5sec.	No degradation or destroy		-

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

TYPICAL PERFORMANCE DATA



OUTPUT POWER, EACH CURRENT VS.  
2nd and 3rd DC SUPPLY VOLTAGE  
CHARACTERISTICS



2nd and 3rd DC SUPPLY VOLTAGE  $V_{cc2} = V_{cc3}$  (V)