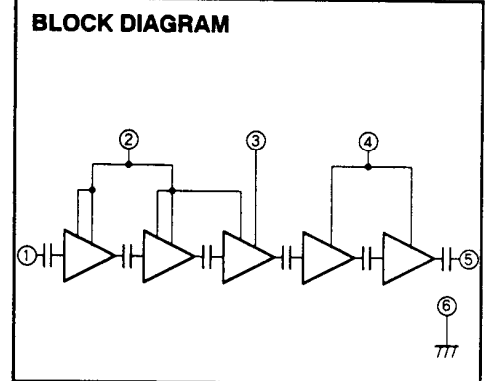
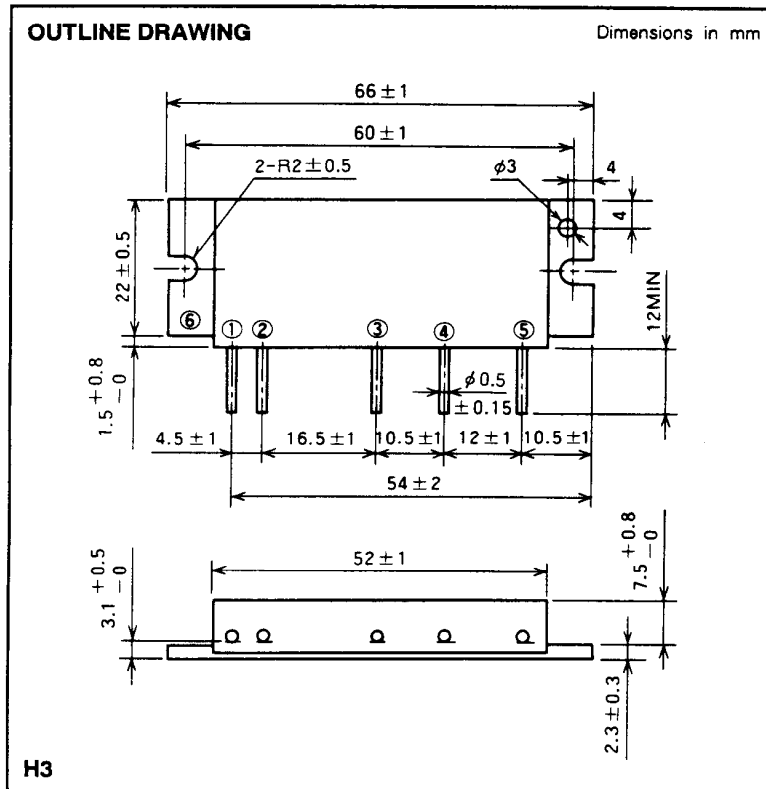


M67769C

889-915MHz, 12.5V, 13W, FM MOBILE 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	Supply voltage		9	V
Vcc2			15	V
Vcc3			17	V
Icc	Total current		5	A
Pin(max)	Input power	Z _G = Z _L = 50 Ω, Vcc1 ≤ 8V	4	mW
Po(max)	Output power	Z _G = Z _L = 50 Ω	20	W
Tc(OP)	Operation case temperature		- 30 to 110	°C
Tstg	Storage temperature		- 40 to 110	°C

Note. Above parameters are guaranteed independently.

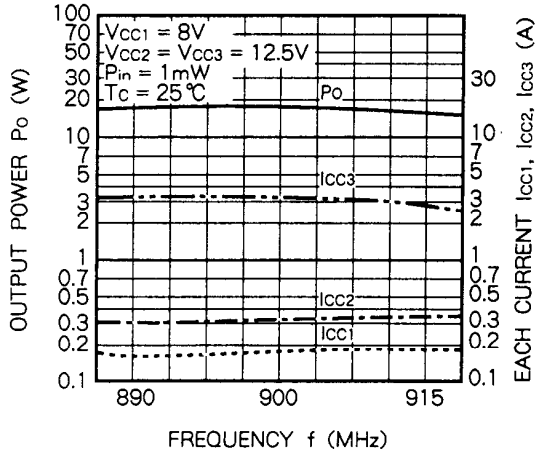
ELECTRICAL CHARACTERISTICS (Tc = 25°C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	Vcc1 = 8V Vcc2 = Vcc3 = 12.5V Pin = 1mW Z _G = Z _L = 50 Ω	889	915	MHz
Po	Output power		13		W
η _T	Total efficiency		30		%
2fo	2nd. harmonic			- 30	dBc
ρ _{in}	Input VSWR			2.8	-
-	Load VSWR tolerance	Vcc1 = 8V, Vcc3 = 15.2V Po = 13W (Vcc2 : controlled) Pin = 1mW Load VSWR=20:1(All phase), 5sec.	No degradation or destroy		-

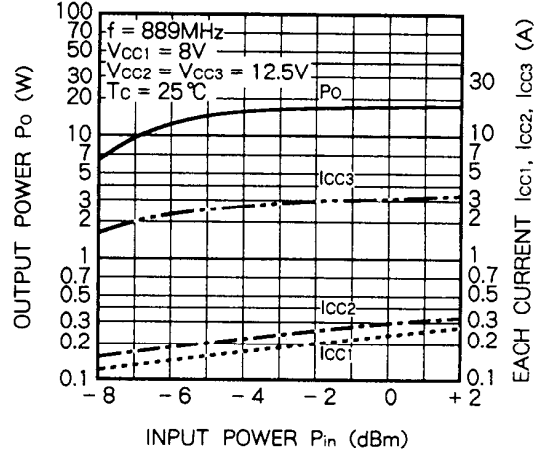
Note. Above parameters, ratings, limits and conditions are subject to change.

TYPICAL PERFORMANCE DATA

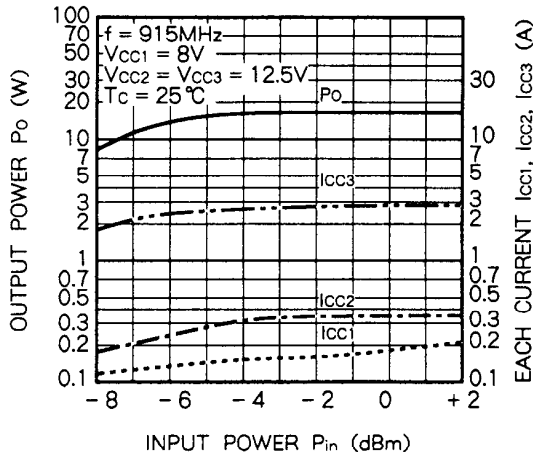
OUTPUT POWER, EACH CURRENT VS. FREQUENCY CHARACTERISTICS



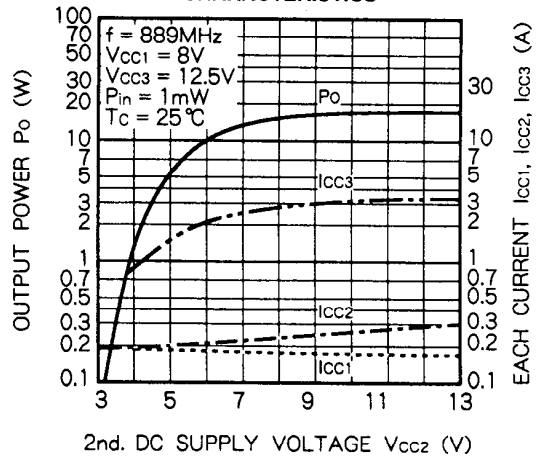
OUTPUT POWER, EACH CURRENT VS. INPUT POWER CHARACTERISTICS



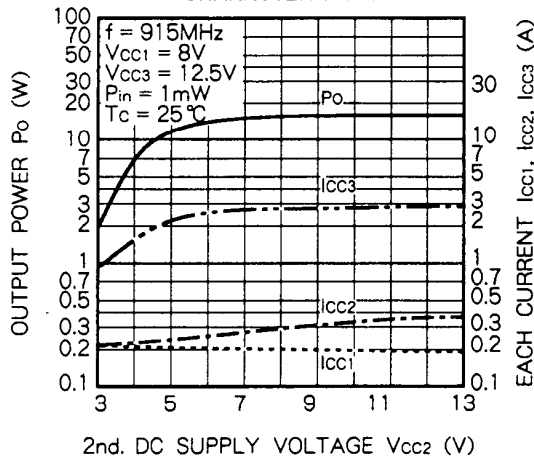
OUTPUT POWER, EACH CURRENT VS. INPUT POWER CHARACTERISTICS



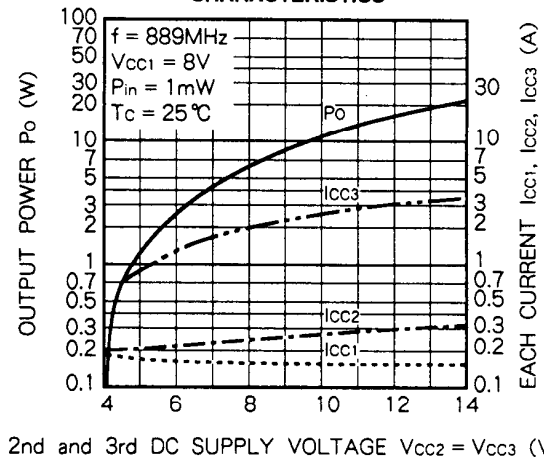
OUTPUT POWER, EACH CURRENT VS. 2nd. DC SUPPLY VOLTAGE CHARACTERISTICS



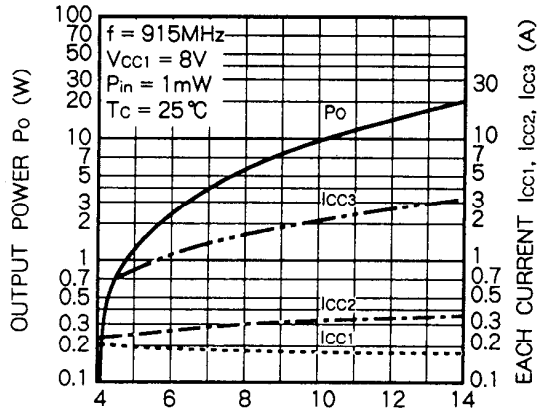
OUTPUT POWER, EACH CURRENT VS. 2nd. DC SUPPLY VOLTAGE CHARACTERISTICS



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



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



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