

- PIN :**
- ① Pin : RF INPUT
 - ⑤ VCC1 : 1st. DC SUPPLY
 - ⑨ VCC2 : 2nd. DC SUPPLY
 - ⑪ Po : RF OUTPUT
 - ②③④ GND
 - ⑥⑦⑧ GND
 - ⑩ GND
 - ⑫ GND : FIN

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

Symbol	Parameter	Conditions	Ratings	Unit
VCC1	Supply voltage		11	V
VCC2			15	V
Icc	Total current		0.6	A
Pin(max)	Input power	ZG = ZL = 50 Ω, VCC1 ≤ 8V	10	mW
Po(max)	Output power	ZG = ZL = 50 Ω	0.8	W
Tc(OP)	Operation case temperature		-30 to 110	°C
Tstg	Storage temperature		-40 to 110	°C

Note. Above parameters are guaranteed independently.

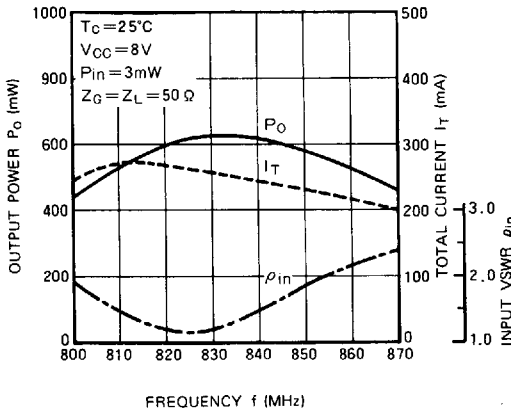
ELECTRICAL CHARACTERISTICS (Tc = 25°C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	VCC1 = VCC2 = 8V Pin = 3mW ZG = ZL = 50 Ω	806	866	MHz
Po	Output power		400		mW
2fo	2nd. harmonic			-30	dBc
ρin	Input VSWR			3.0	-
Itr	Total current	VCC1 = VCC2 = 8V, Po = 0.4W(Pin : controlled) ZG = ZL = 50Ω		290	mA
-	Load VSWR tolerance	VCC1 = 8V, VCC2 = 15V Po = 0.4W(Pin : controlled), ZG = 50Ω Load VSWR=20:1 (All phase), 5sec.	No degradation or destroy		-

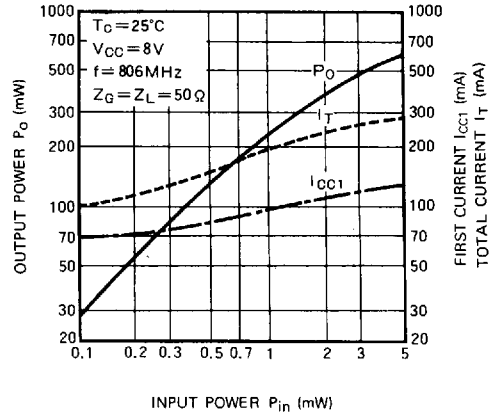
Note. Above parameters, ratings, limits and conditions are subject to change.

TYPICAL CHARACTERISTICS

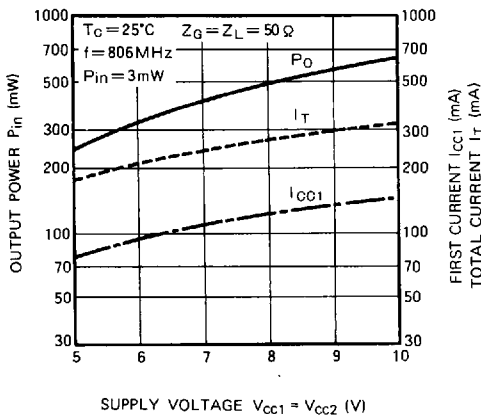
OUTPUT POWER, TOTAL CURRENT, INPUT VSWR VS. FREQUENCY



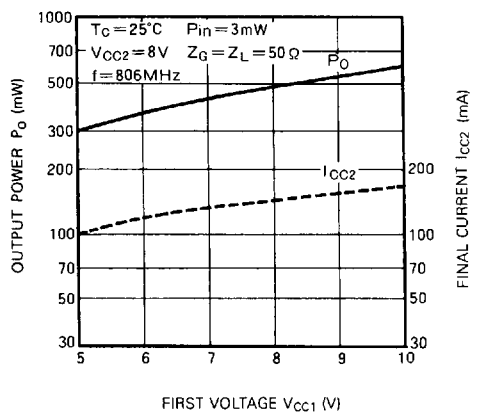
OUTPUT POWER, TOTAL CURRENT, FIRST CURRENT VS. INPUT POWER



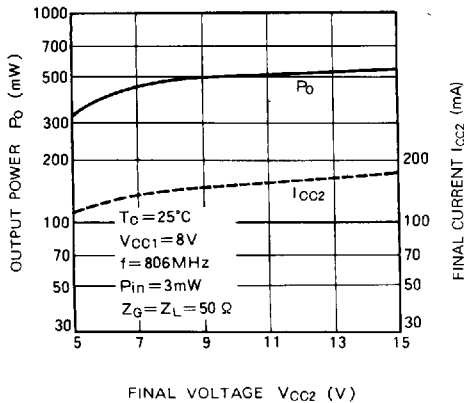
OUTPUT POWER, FIRST CURRENT, TOTAL CURRENT VS. SUPPLY VOLTAGE



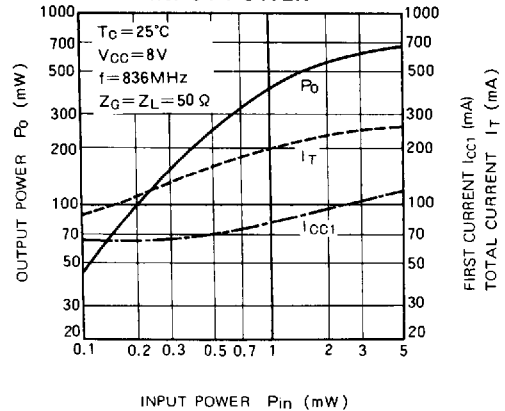
OUTPUT POWER, FIRST CURRENT VS. FIRST VOLTAGE



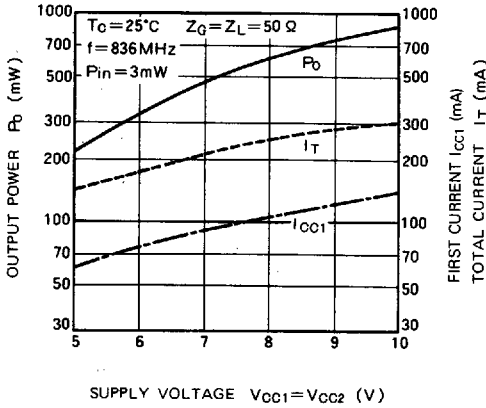
OUTPUT POWER, FIRST CURRENT TOTAL CURRENT VS. FINAL VOLTAGE



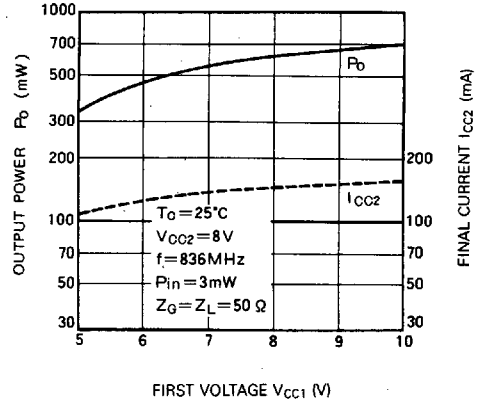
OUTPUT POWER, FIRST CURRENT TOTAL CURRENT VS. INPUT POWER



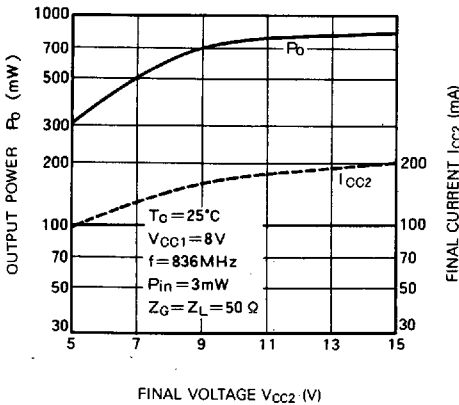
OUTPUT POWER, TOTAL CURRENT, FIRST CURRENT VS. SUPPLY VOLTAGE



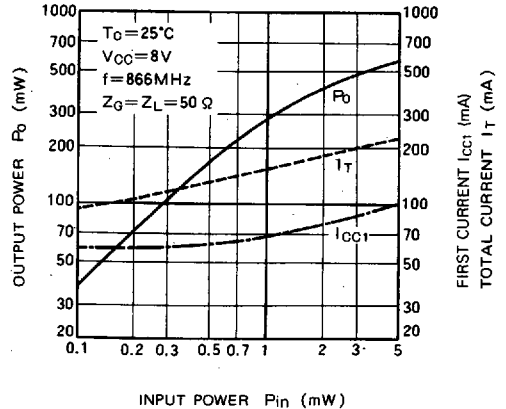
OUTPUT POWER, FINAL CURRENT VS. FIRST VOLTAGE



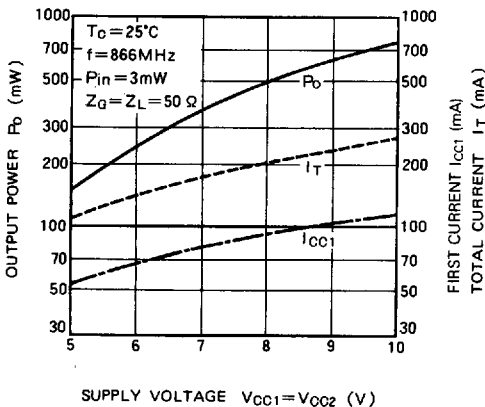
OUTPUT POWER, FINAL CURRENT VS. FINAL VOLTAGE



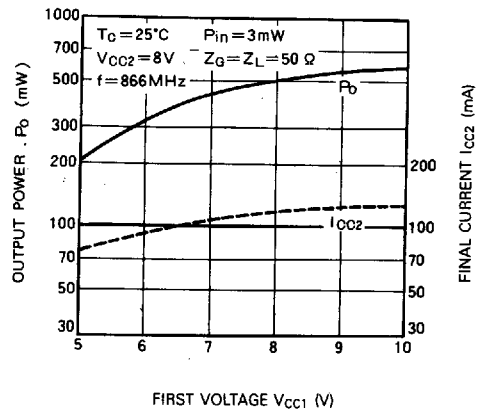
OUTPUT POWER, FIRST CURRENT, TOTAL CURRENT VS. INPUT POWER



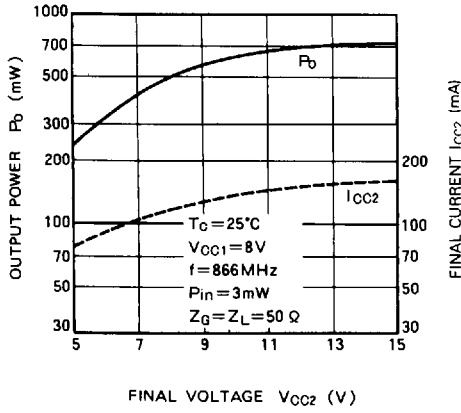
OUTPUT POWER, FIRST CURRENT, TOTAL CURRENT VS. SUPPLY VOLTAGE



OUTPUT POWER, FINAL CURRENT VS. FIRST VOLTAGE



OUTPUT POWER,
FINAL CURRENT VS.
FINAL VOLTAGE



INPUT IMPEDANCE VS. FREQUENCY

