

- PIN:**
- ①Pin : RF INPUT
 - ②VCC1: 1st. DC SUPPLY
 - ③VCC2: 2nd. DC SUPPLY
 - ④VCC3: 3rd. DC SUPPLY
 - ⑤Po : RF OUTPUT
 - ⑥GND : FIN

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

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage	ZG=ZL=50 ohms	17	V
Icc	Total current	ZG=ZL=50ohms	20	A
P _{in} (max)	Input power	ZG=ZL=50ohms, Vcc1<12.5V	600	mW
P _O (max)	Output power	ZG=ZL=50ohms, Vcc1<12.5V	70	W
T _C (OP)	Operation case temperature	ZG=ZL=50ohms, Vcc1<12.5V	-30 to +110	°C
T _{stg}	Storage temperature		-40 to +110	°C

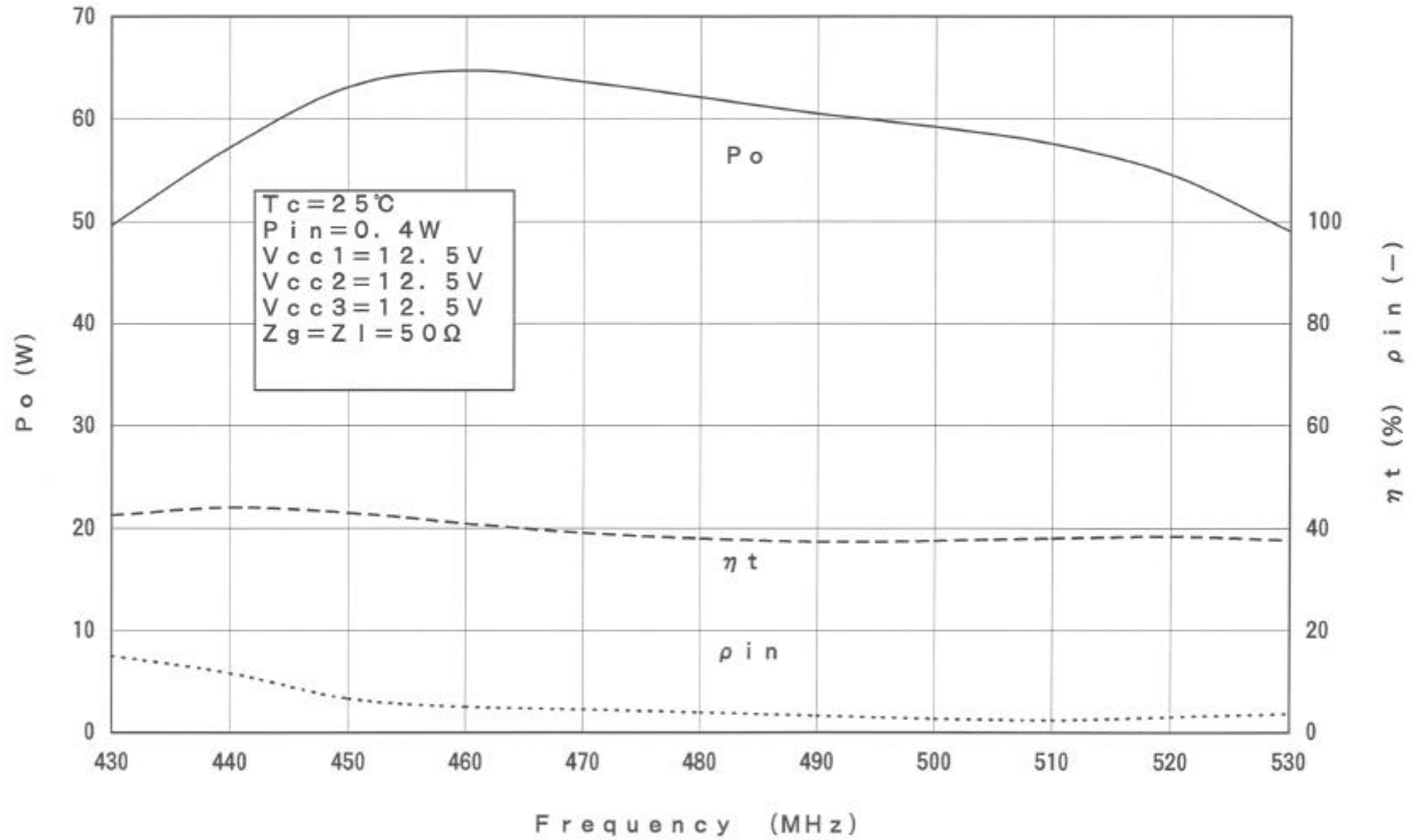
Note. Above each maximum ratings are guaranteed independently.

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

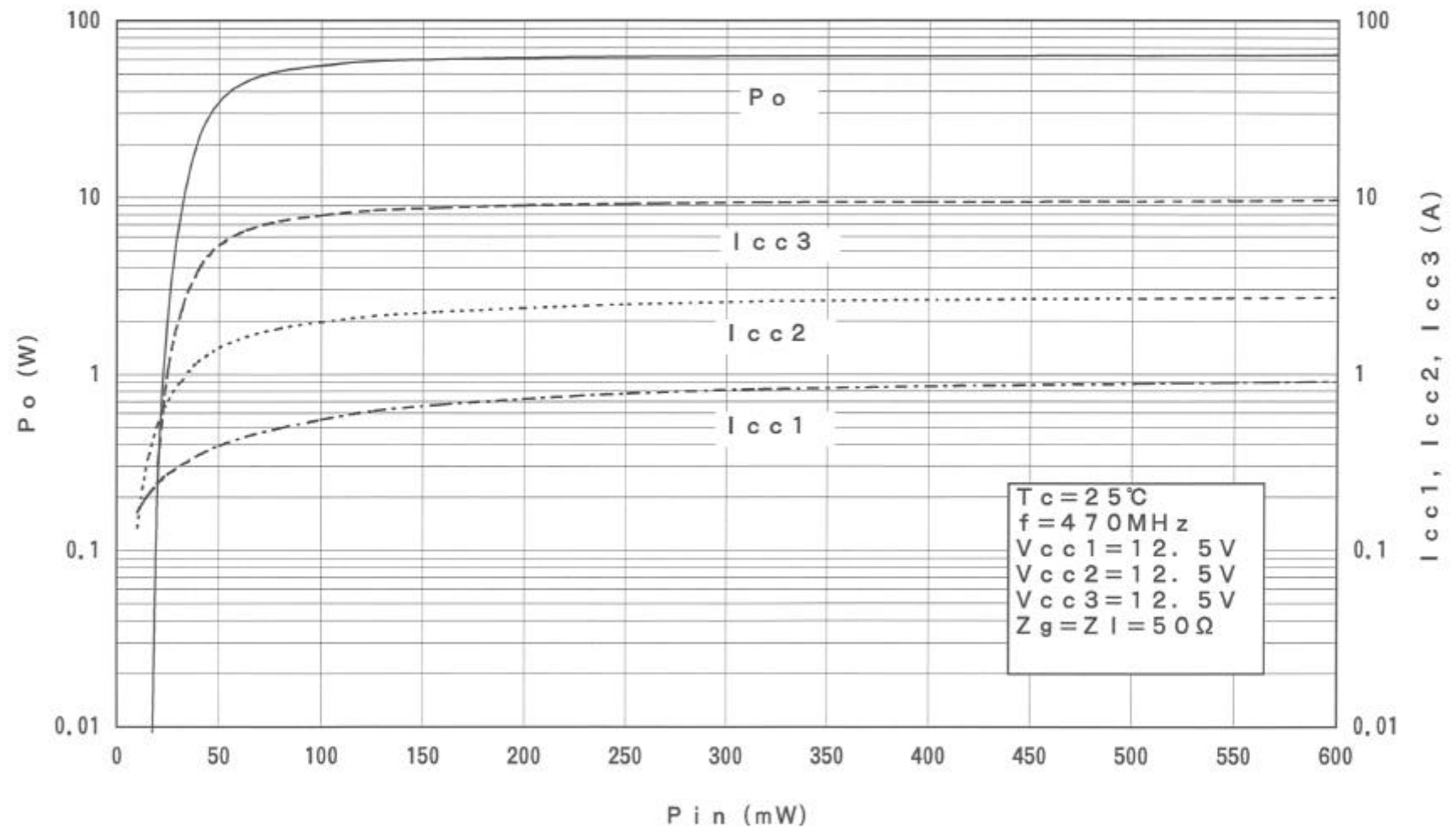
Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		470	512	MHz
P _O	Output power		50		W
η _T	Total efficiency	Vcc=12.5V, P _{in} =400mW, ZG=ZL=50ohms	35		%
2fo	2nd. harmonic			-30	dBc
3fo	3rd. harmonic			-30	dBc
r _{in}	Input VSWR			3	-
-	Load VSWR tolerance	Vcc=15.2V, P _O =50W (P _{in} :Controlled), ZG=50ohms, Load VSWR=20:1 (All phase)	No degradation or destroy		-

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

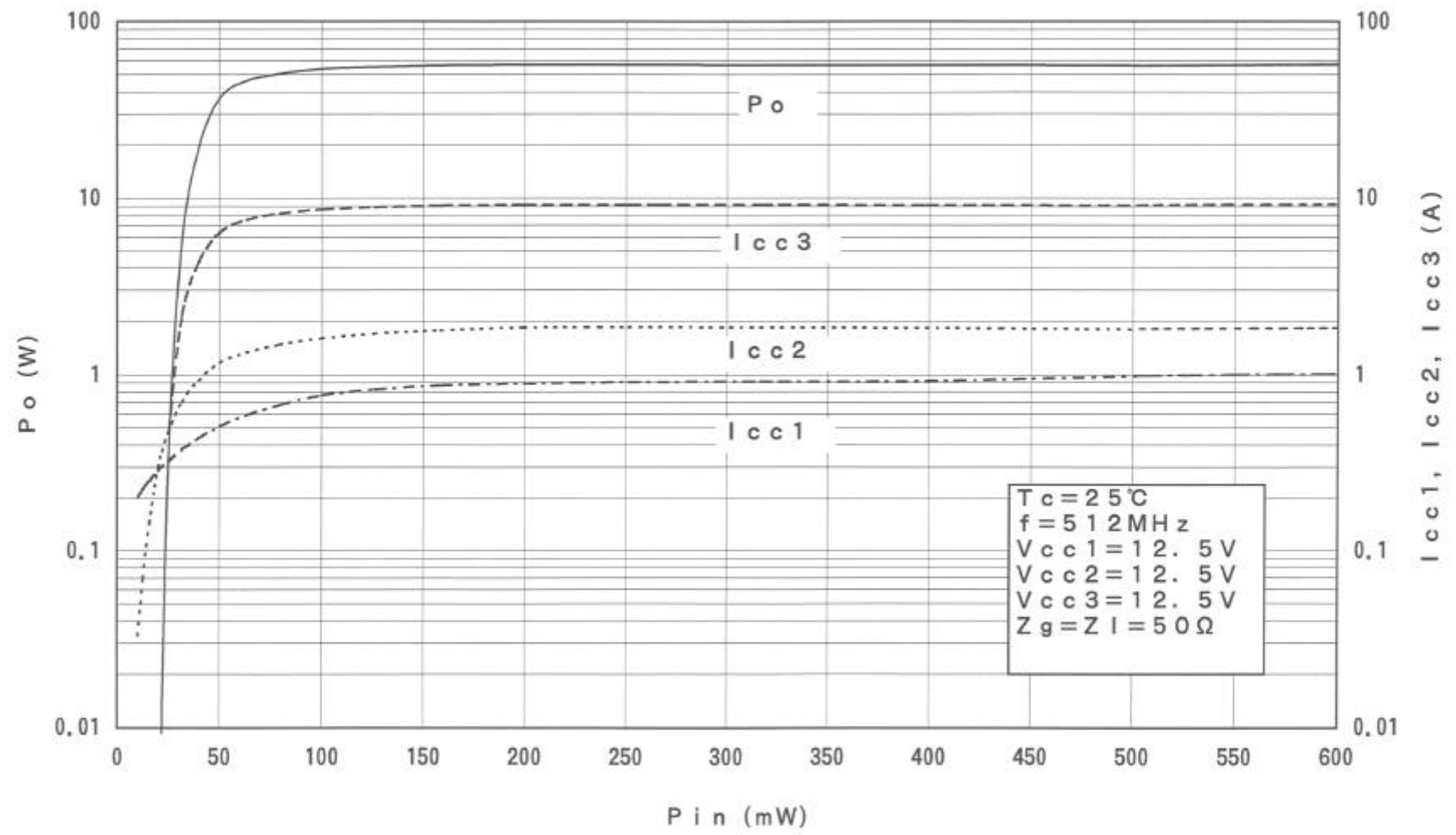
M68703SHA OUTPUT POWER TOTAL EFFICIENCY ρ_{in} VS FREQUENCY



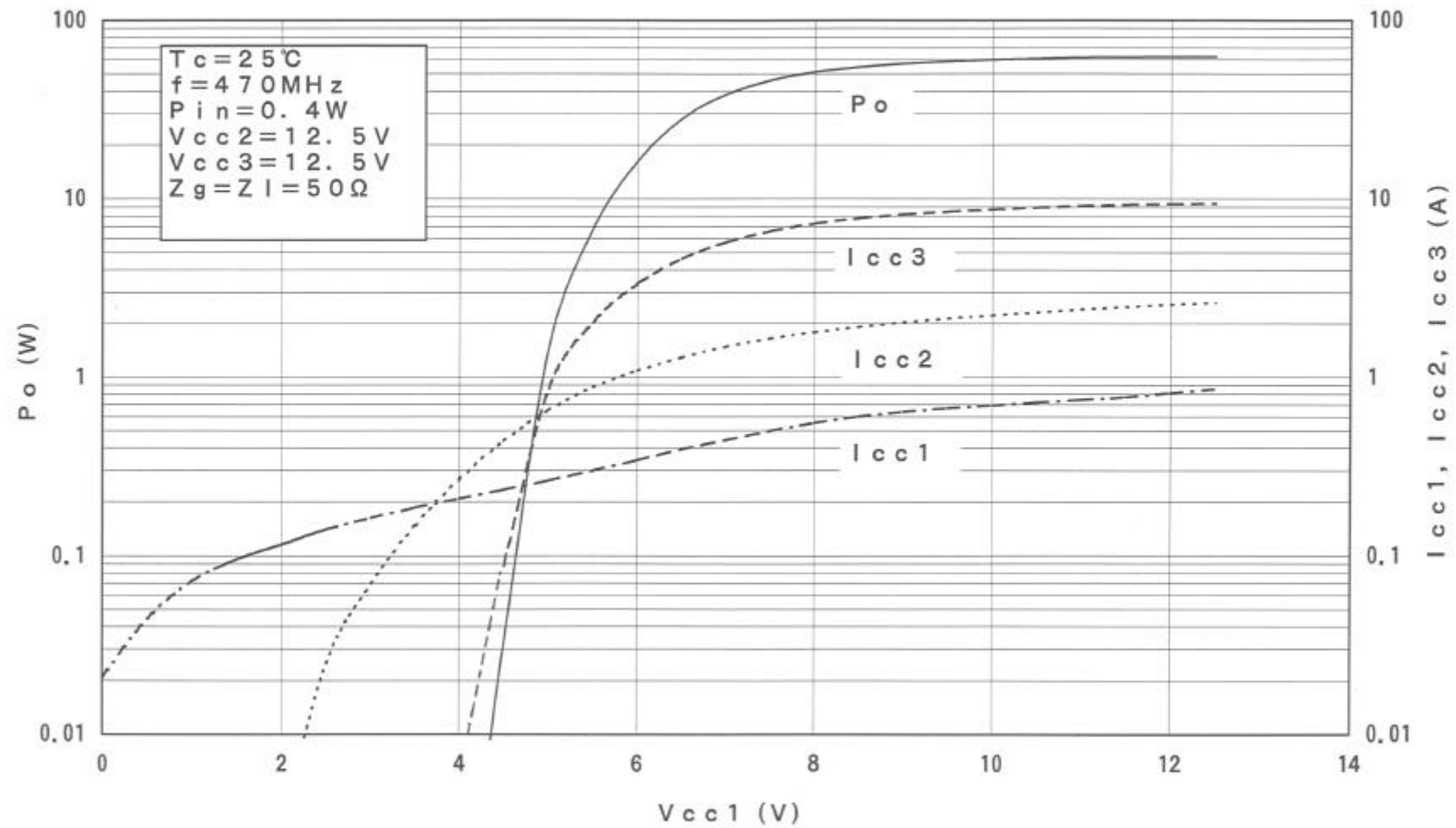
M68703SHA OUTPUT POWER VS INPUT POWER



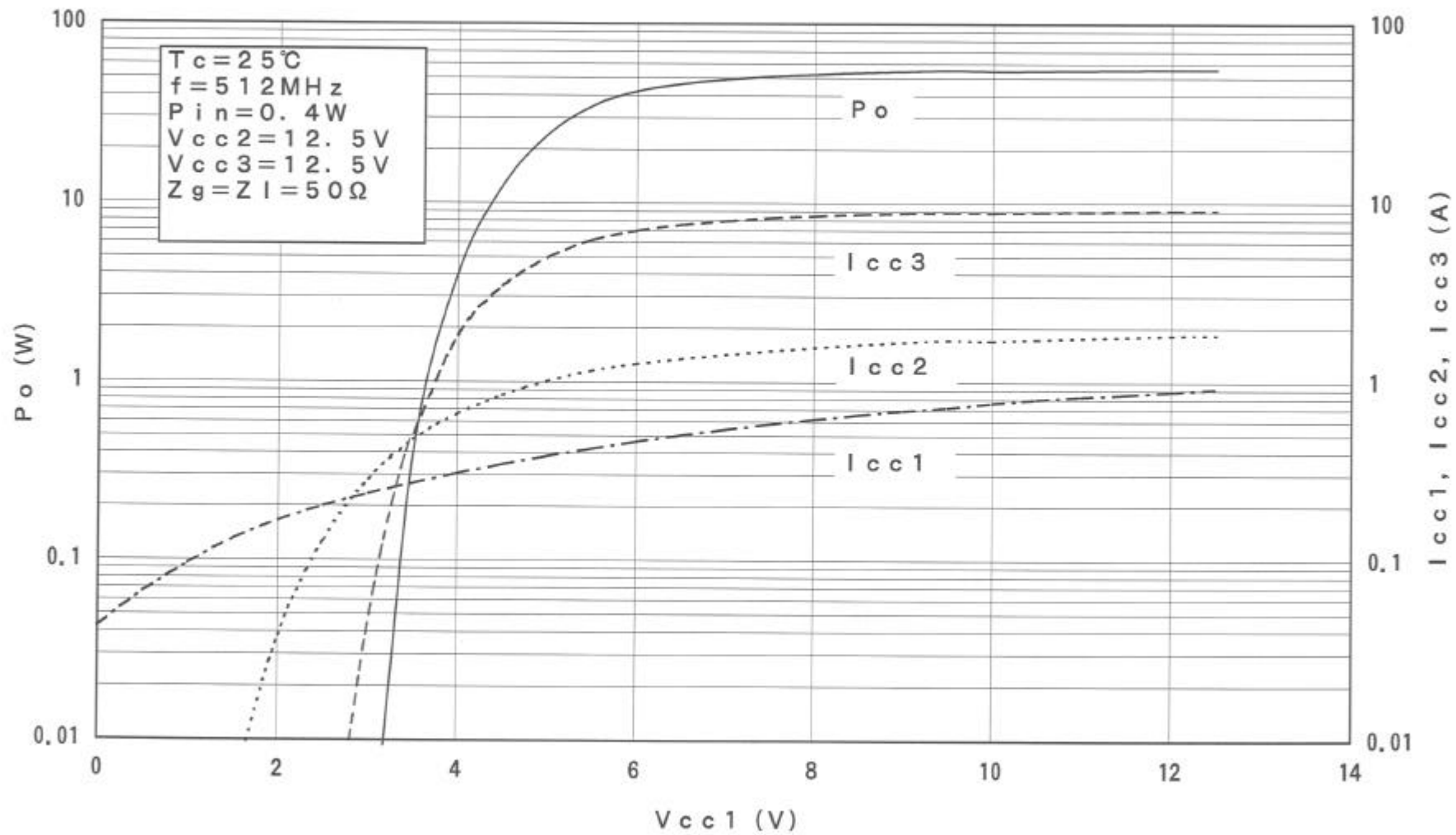
M68703SHA OUTPUT POWER VS INPUT POWER



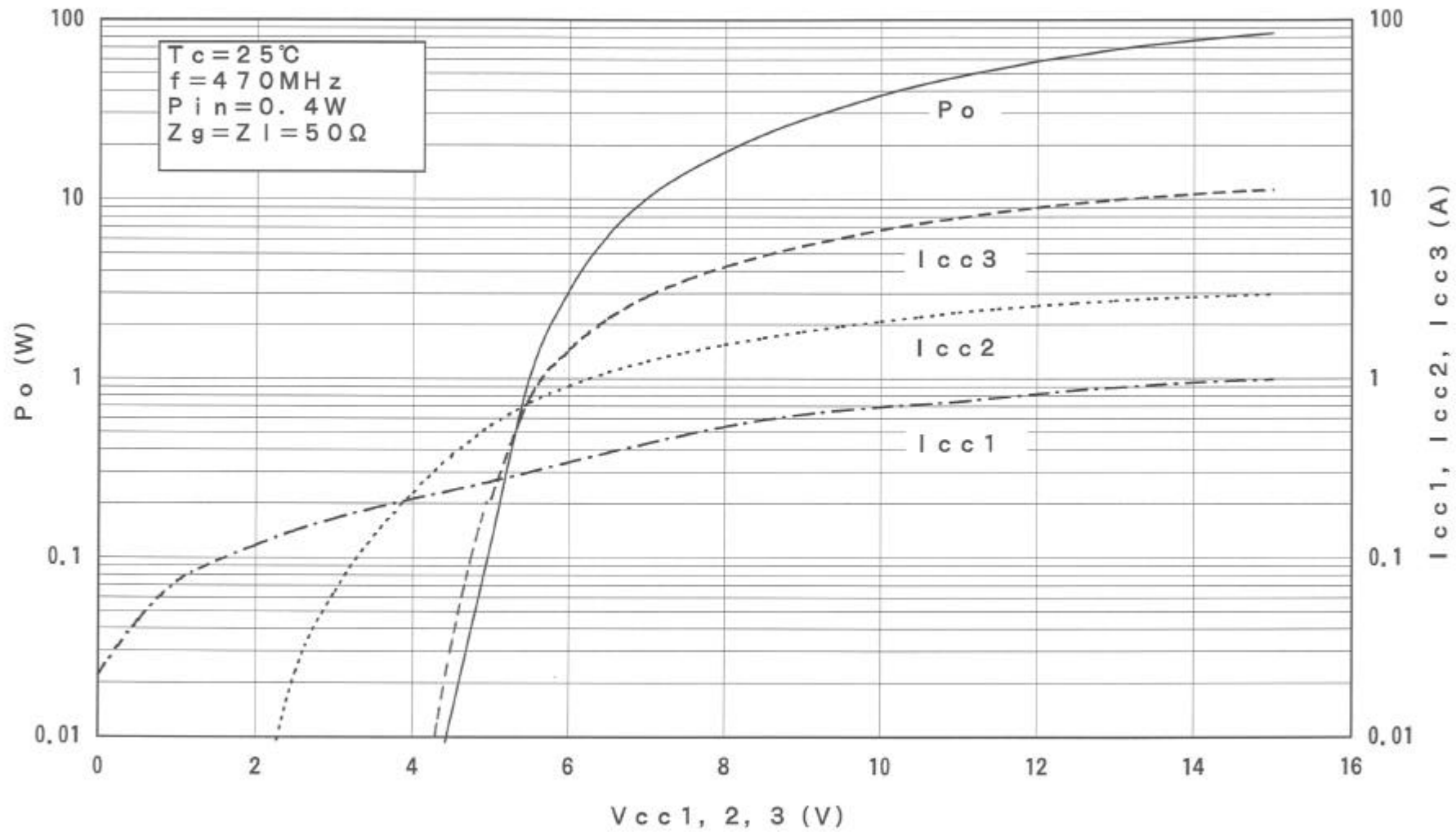
M68703SHA OUTPUT POWER VS SUPPLY VOLTAGE



M68703SHA OUTPUT POWER VS SUPPLY VOLTAGE



M68703SHA OUTPUT POWER VS SUPPLY VOLTAGE



M68703SHA OUTPUT POWER VS SUPPLY VOLTAGE

