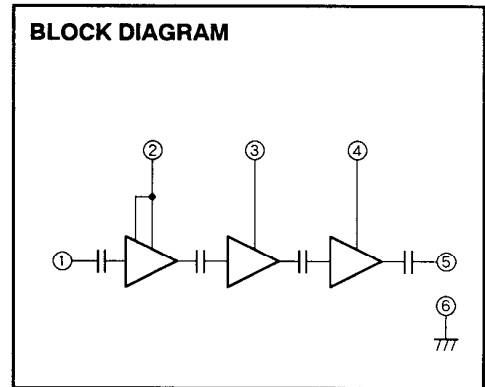
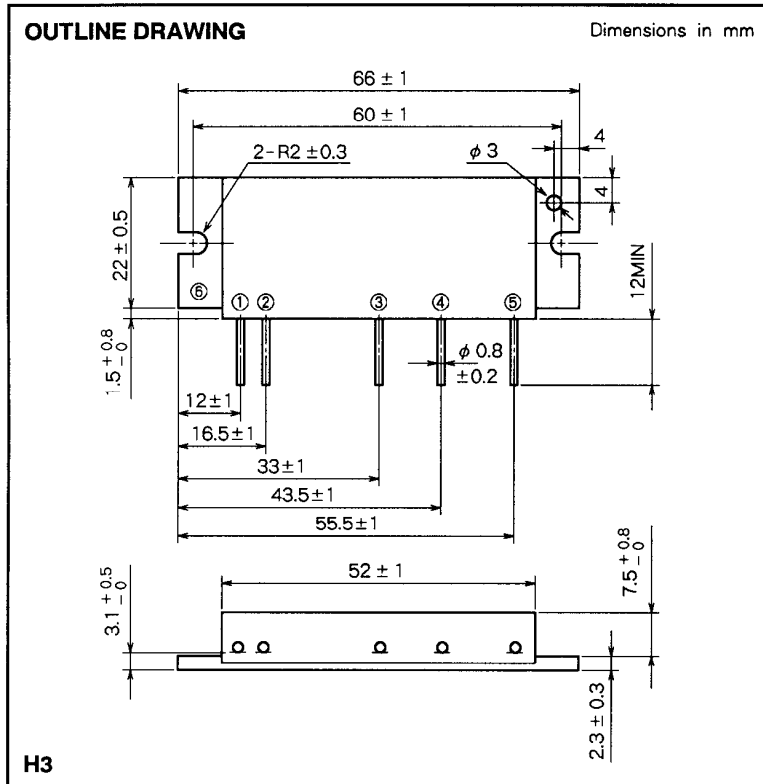


# M57788UH

470-490MHz, 12.5V, 40W, 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** (T<sub>c</sub> = 25 °C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
V <sub>cc1</sub>	Supply voltage		16	V
V <sub>cc2,3</sub>		17	V	
I <sub>cc</sub>	Total current		12	A
P <sub>in(max)</sub>	Input power	Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	0.5	W
P <sub>O(max)</sub>	Output power	Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	50	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.

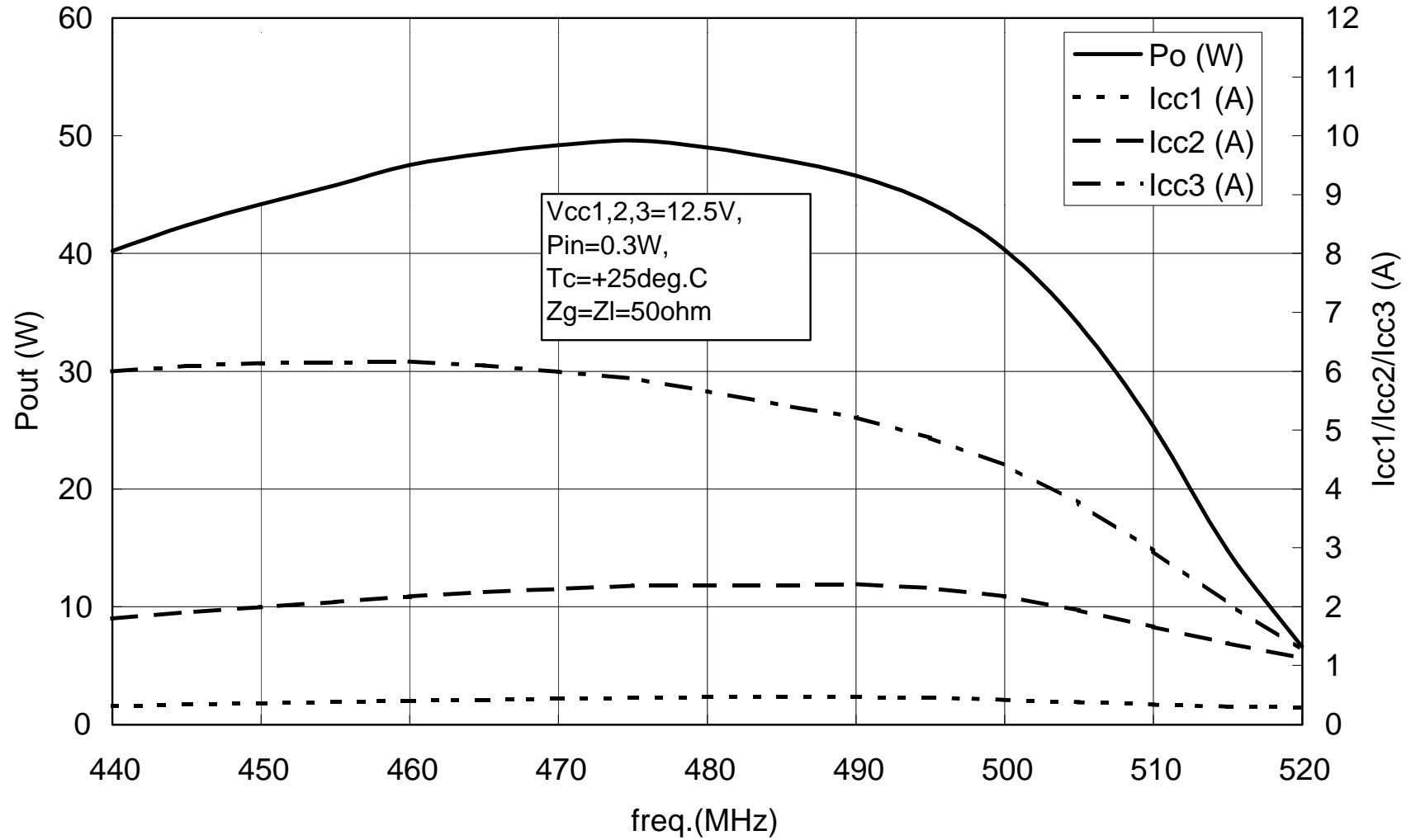
**ELECTRICAL CHARACTERISTICS** (T<sub>c</sub> = 25 °C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit	
			Min	Max		
f	Frequency range		470	490	MHz	
P <sub>o</sub>	Output power	P <sub>in</sub> = 0.3W V <sub>cc</sub> = 12.5V Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	40		W	
η <sub>T</sub>	Total efficiency		40		%	
2f <sub>o</sub>	2nd. harmonic			- 30		dBc
3f <sub>o</sub>	3rd. harmonic			- 30		dBc
ρ <sub>in</sub>	Input VSWR				3.5	-
-	Load VSWR tolerance	V <sub>cc</sub> = 15.2V, P <sub>o</sub> = 40W (P <sub>in</sub> : controlled) Load VSWR = 8.8 : 1 (All phase), Z <sub>G</sub> = 50 Ω	No degradation or destroy		-	

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

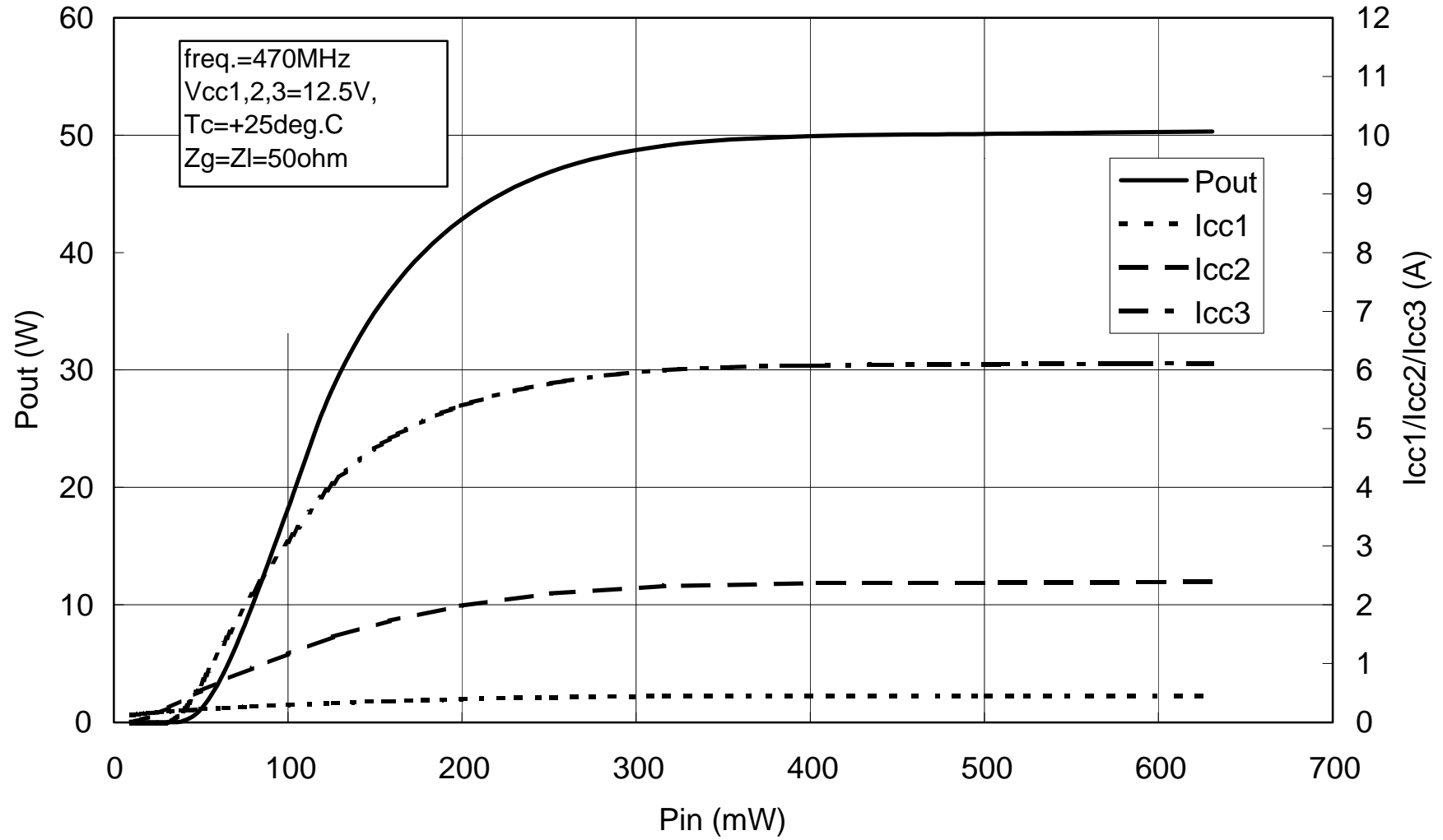
Graph f-Po

M57788UH Pout,Icc vs. freq



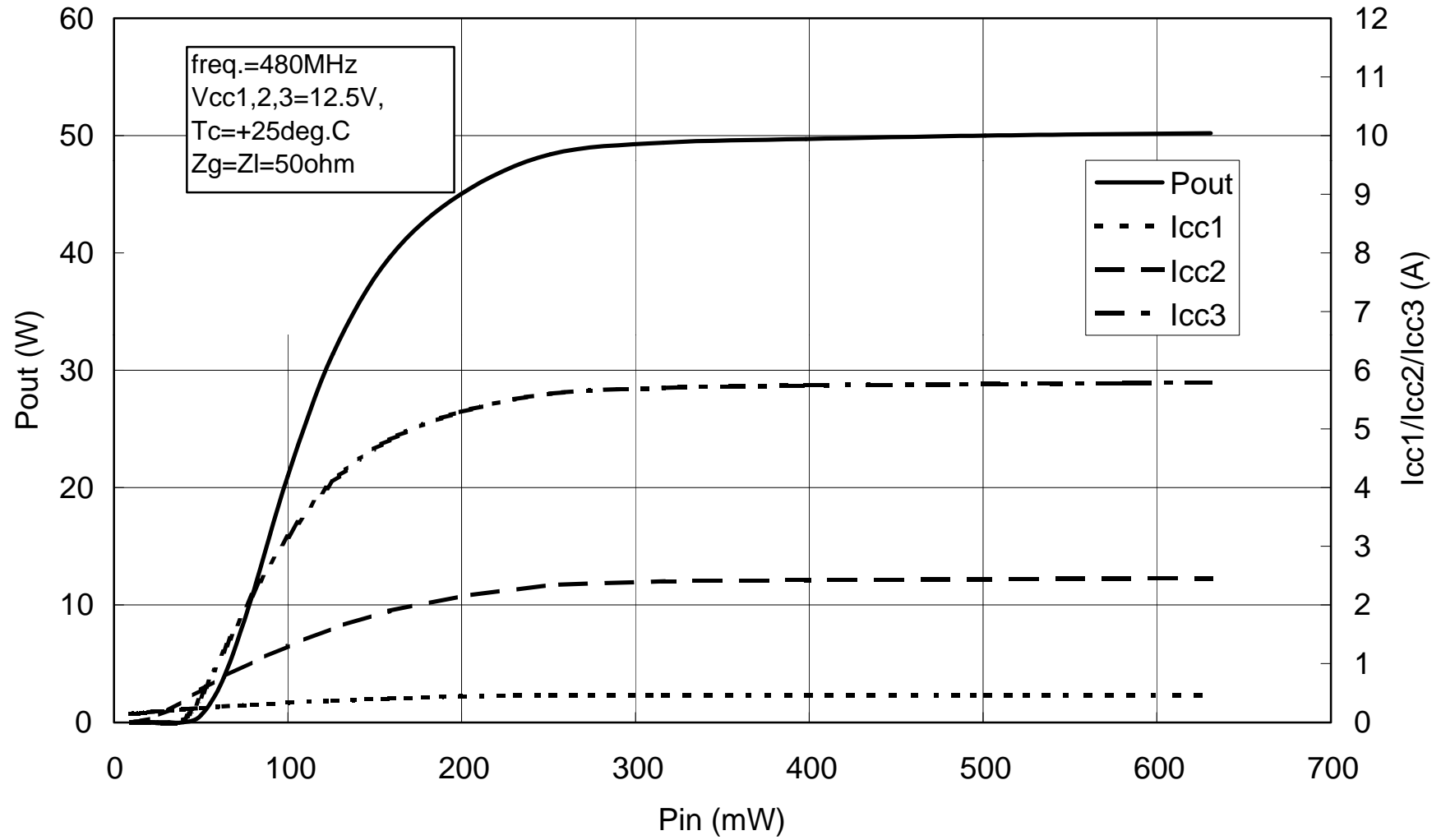
Graph Pin-Po(fL)

M57788UH Pout,Icc vs. Pin



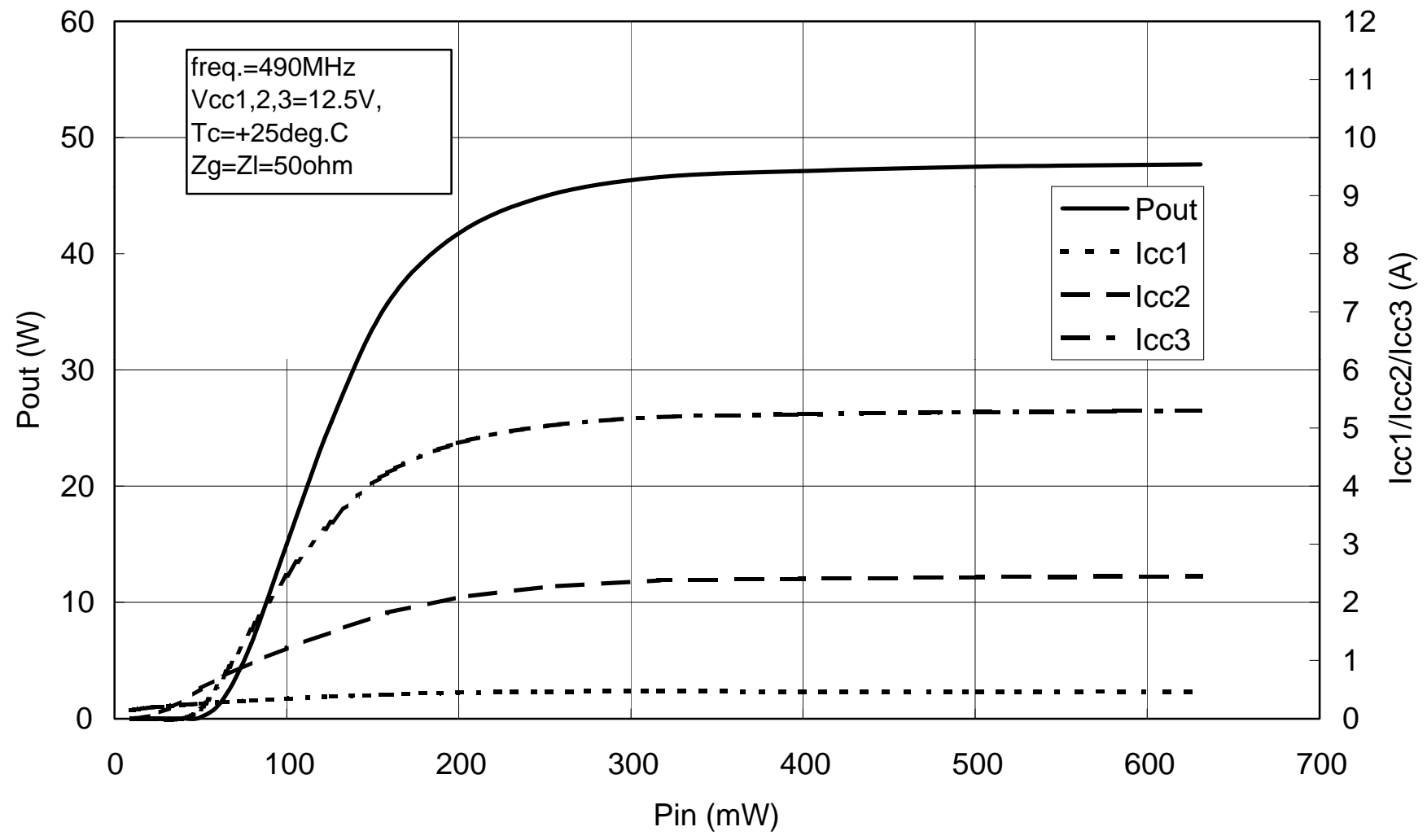
Graph Pin-Po(fM)

M57788UH Pout,Icc vs. Pin



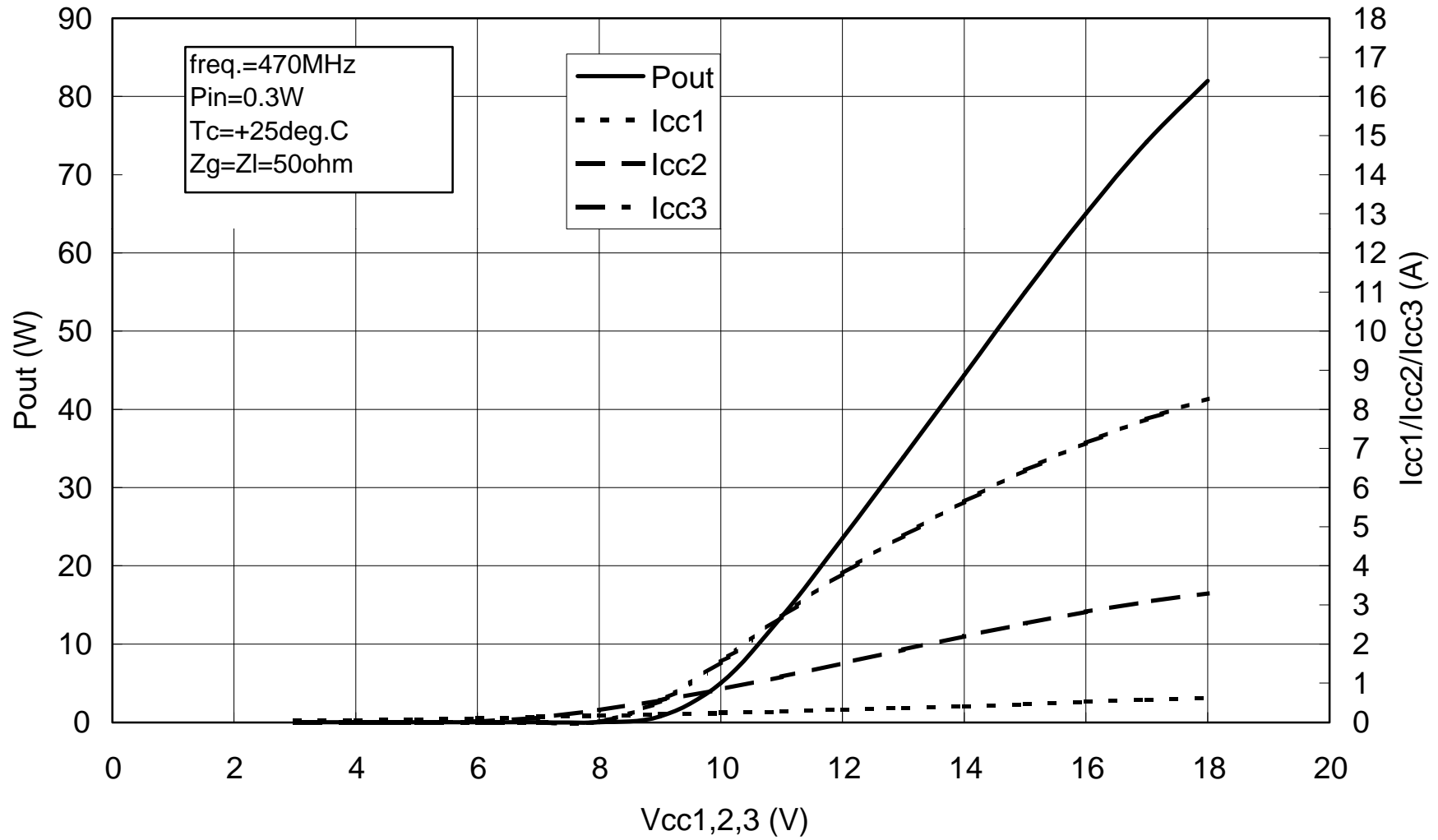
Graph Pin-Po(fH)

M57788UH Pout,Icc vs. Pin

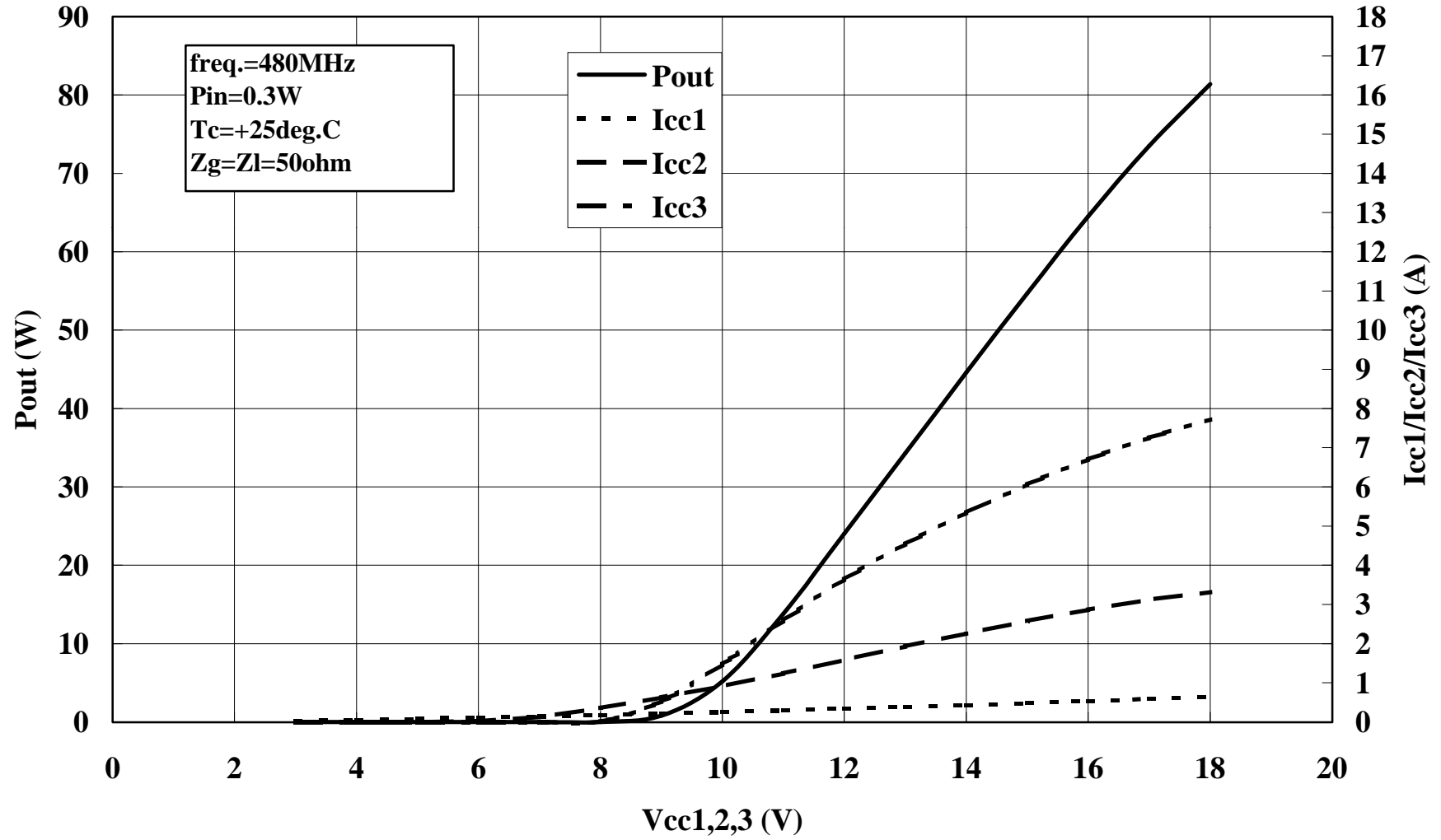


Graph Vc-Po(fL)

M57788UH Pout,Icc vs. Vcc

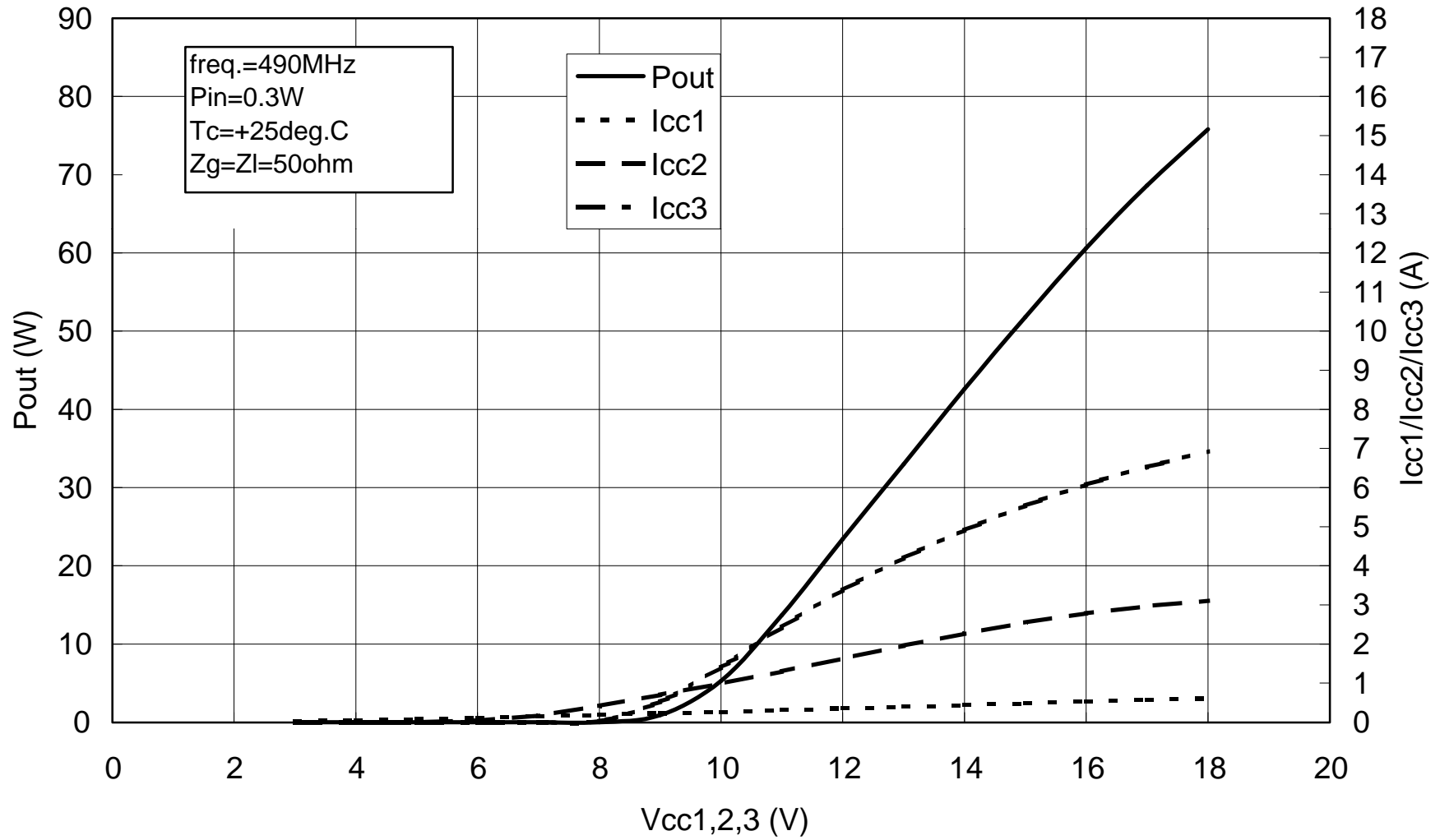


**M57788UH Pout,Icc vs. Vcc**



Graph Vc-Po(fH)

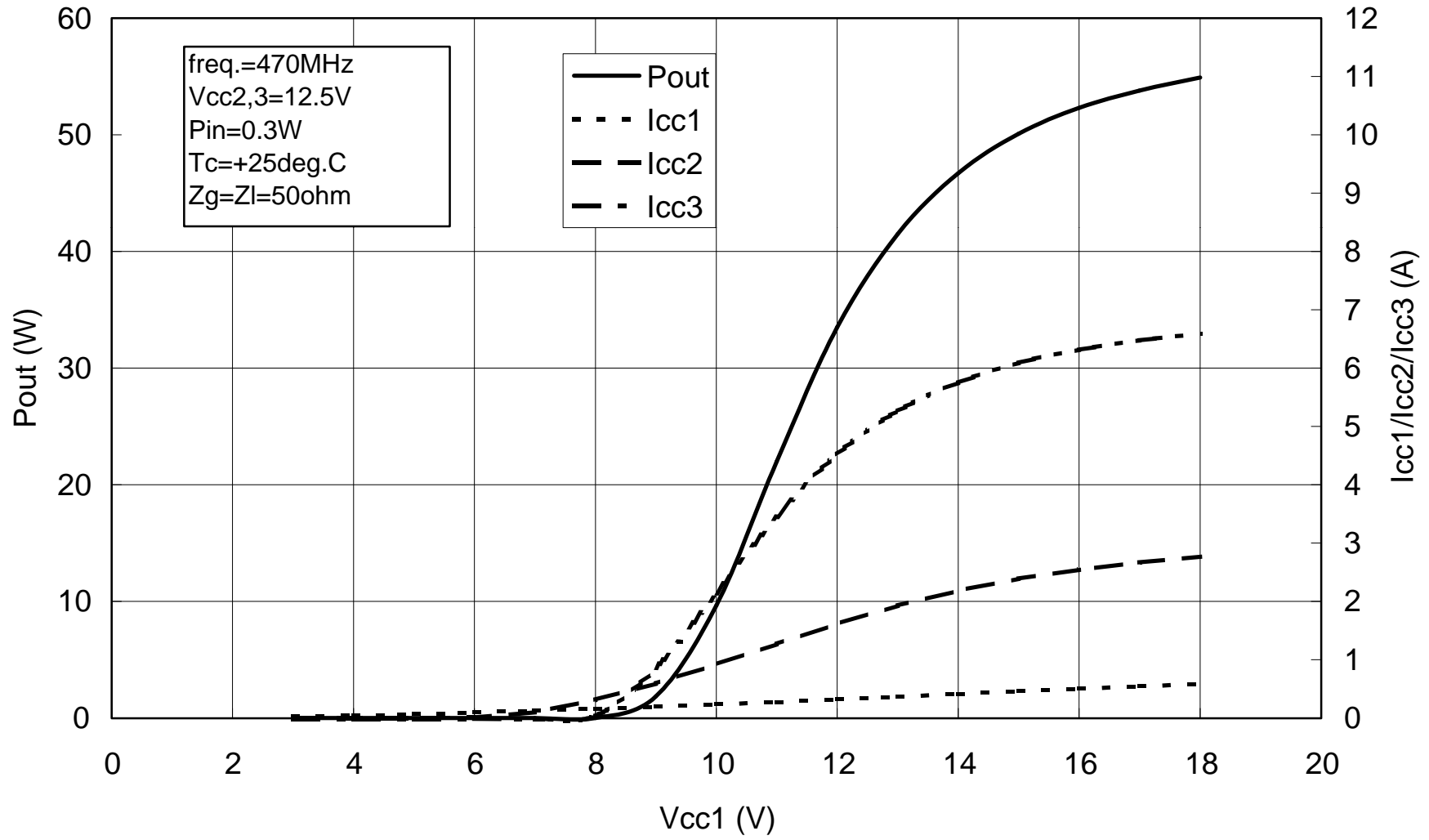
M57788UH Pout,Icc vs. Vcc





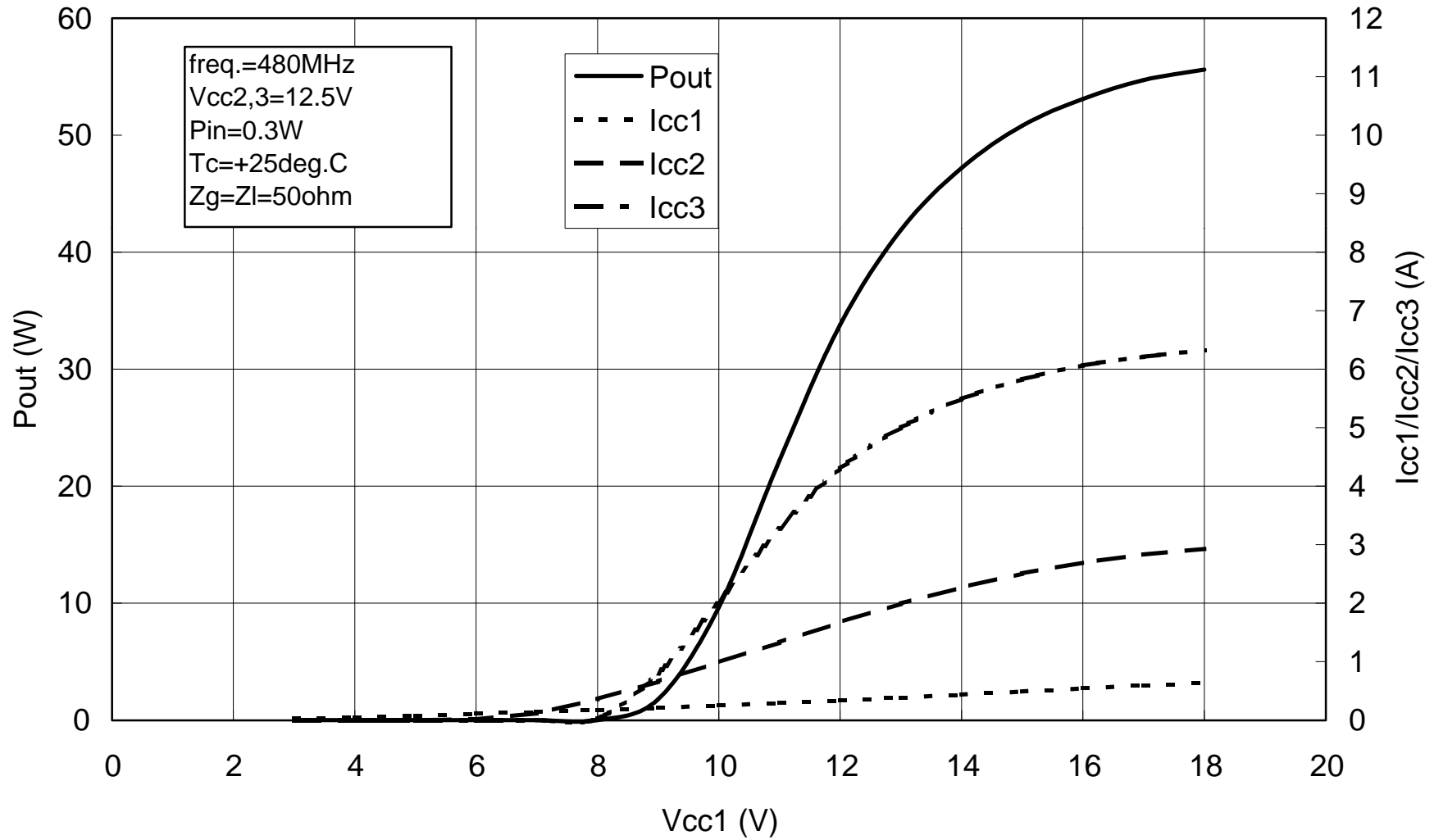
Graph Vc1-Po(fL)

M57788UH Pout,Icc vs. Vcc



Graph Vc1-Po(fM)

M57788UH Pout,Icc vs. Vcc



Graph Vc1-Po(fH)

M57788UH Pout,Icc vs. Vcc

