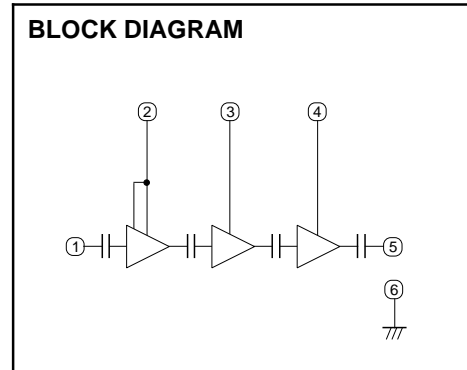
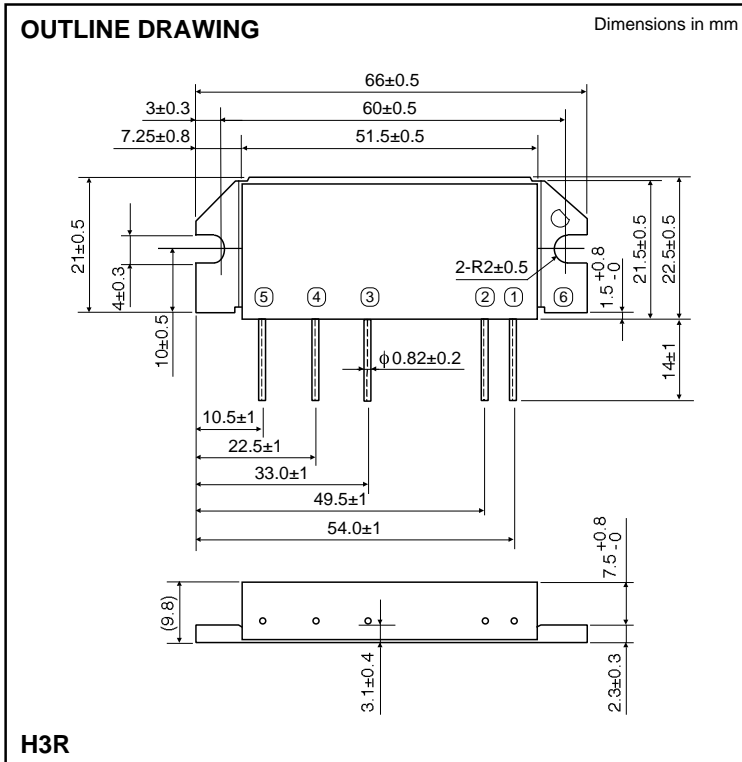


MITSUBISHI RF POWER MODULE
M57788LR

400-430MHz, 13.5V, 47W, FM MOBILE RADIO



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

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

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage	Z _G =Z _L =50	17	V
Icc	Total current	Z _G =Z _L =50	12	A
P _{in} (max)	Input power	Z _G =Z _L =50 , Vcc1 13.5V	800	mW
P _O (max)	Output power	Z _G =Z _L =50 , Vcc1 13.5V	50	W
T _C (OP)	Operation case temperature	Z _G =Z _L =50 , Vcc1 13.5V	-30 to +110	°C
T _{stg}	Storage temperature		-40 to +110	°C

Note. Above each maxmum ratings are guaranteed independently.

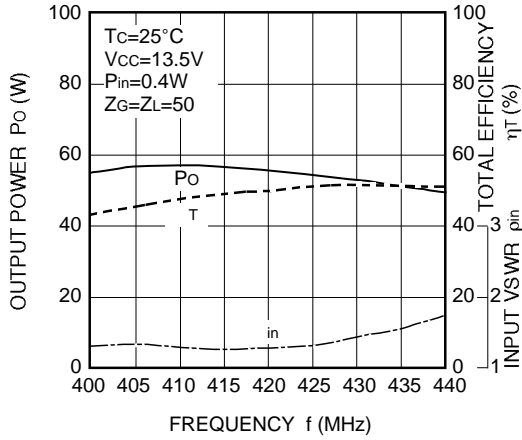
ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		400	430	MHz
P _O	Output power		47		W
τ	Total efficiency	Vcc=13.5V, P _{in} =400mW, Z _G =Z _L =50	40		%
2fo	2nd. harmonic			-30	dBc
3fo	3nd. harmonic			-30	dBc
in	Input VSWR			2.8	—
—	Load VSWR tolerance		Vcc=15.2V, P _O =47W (P _{in} :Controlled), Z _G =50 , Load VSWR=8:1 (All phase)	No degradation or destruy	

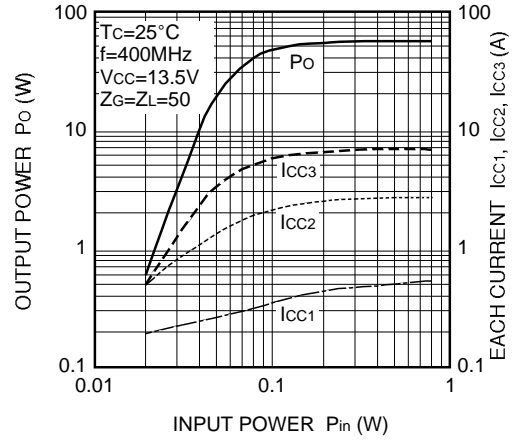
Note. Above parameters, ratings, limits and test conditions are subject to change.

TYPICAL PERFORMANCE DATA

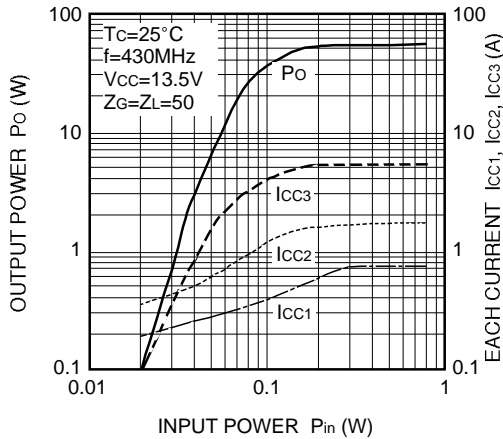
**OUTPUT POWER, TOTAL EFFICIENCY
 INPUT VSWR VS. FREQUENCY**



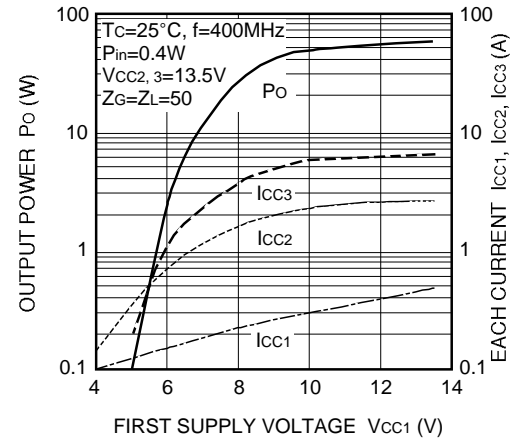
**OUTPUT POWER, EACH CURRENT
 VS. INPUT POWER**



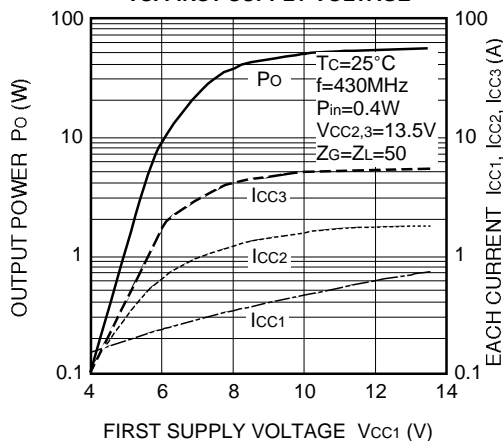
**OUTPUT POWER, EACH CURRENT
 VS. INPUT POWER**



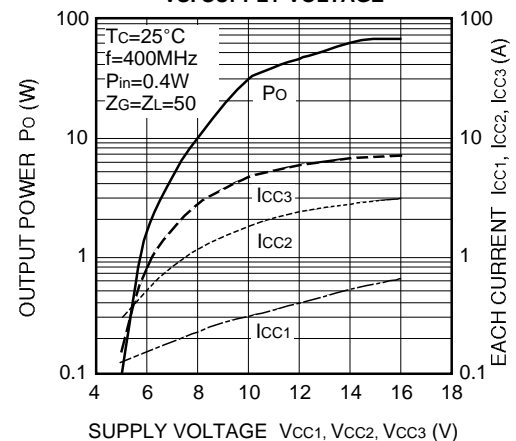
**OUTPUT POWER, EACH CURRENT
 VS. FIRST SUPPLY VOLTAGE**



**OUTPUT POWER, EACH CURRENT
 VS. FIRST SUPPLY VOLTAGE**



**OUTPUT POWER, EACH CURRENT
 VS. SUPPLY VOLTAGE**



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