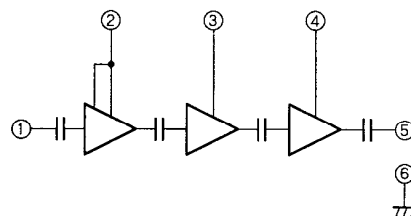


# M57788L

## OUTLINE DRAWING

### BLOCK DIAGRAM



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

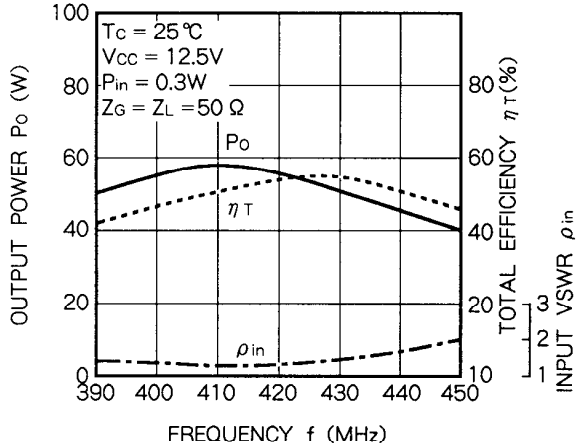
Symbol	Parameter	Conditions	Ratings	Unit
V <sub>CC1</sub>	Supply voltage		16	V
V <sub>CC2, 3</sub>			17	V
I <sub>CC</sub>	Total current		12	A
P <sub>in(max)</sub>	Input power	Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	0.5	W
P <sub>O(max)</sub>	Output power	Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	50	W
T <sub>C(OP)</sub>	Operation case temperature		– 30 to 110	°C
T <sub>stg</sub>	Storage temperature		– 40 to 110	°C

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	$P_{in} = 0.3W$ $V_{CC} = 12.5V$ $Z_G = Z_L = 50 \Omega$	400	430	MHz
P <sub>o</sub>	Output power		40		W
$\eta_T$	Total efficiency		40		%
2f <sub>o</sub>	2nd. harmonic			- 30	dBc
3f <sub>o</sub>	3rd. harmonic			- 30	dBc
$\rho_{in}$	Input VSWR			3.5	-
-	Load VSWR tolerance	$V_{CC} = 15.2V$ , $P_o = 40W$ ( $P_{in}$ : controlled) Load VSWR = 8.8 : 1 (All phase) $Z_G = 50 \Omega$	No degradation or destroy		-

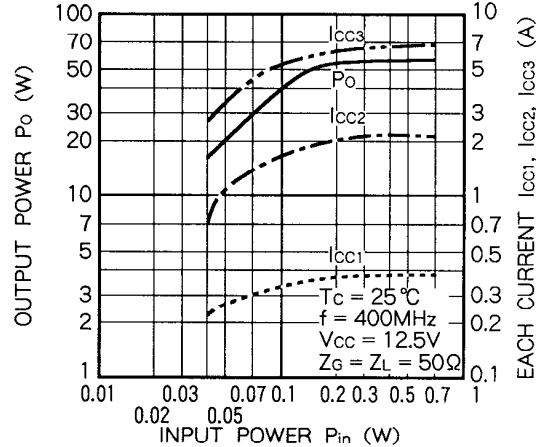
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TYPICAL PERFORMANCE DATA

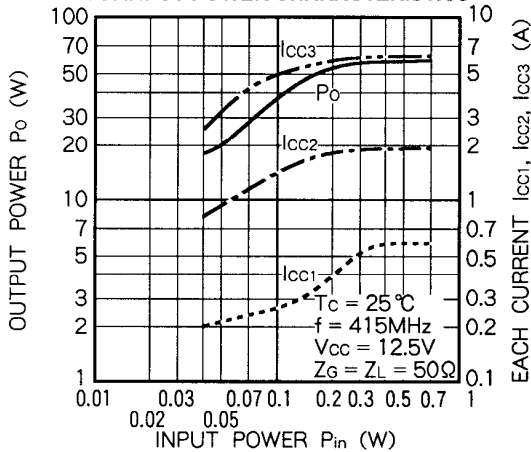
OUTPUT POWER, TOTAL EFFICIENCY, INPUT VSWR VS. FREQUENCY CHARACTERISTICS



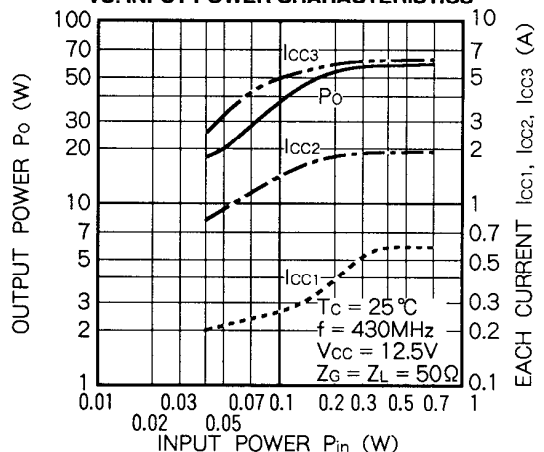
OUTPUT POWER, EACH CURRENT VS. INPUT POWER CHARACTERISTICS



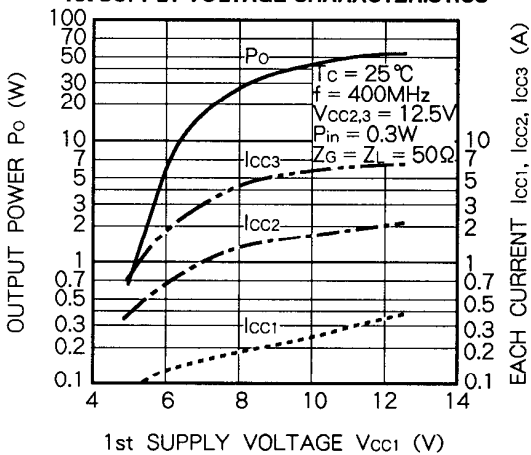
OUTPUT POWER, EACH CURRENT VS. INPUT POWER CHARACTERISTICS



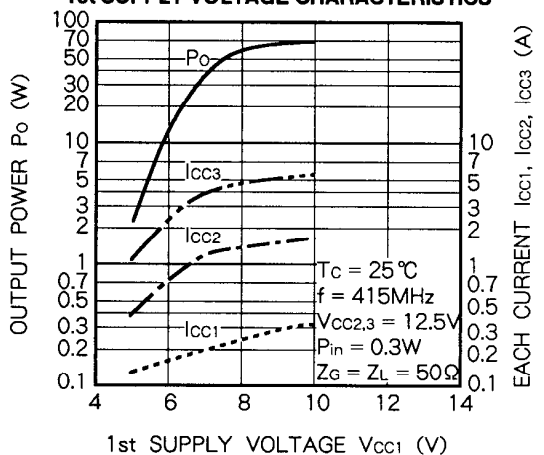
OUTPUT POWER, EACH CURRENT VS. INPUT POWER CHARACTERISTICS



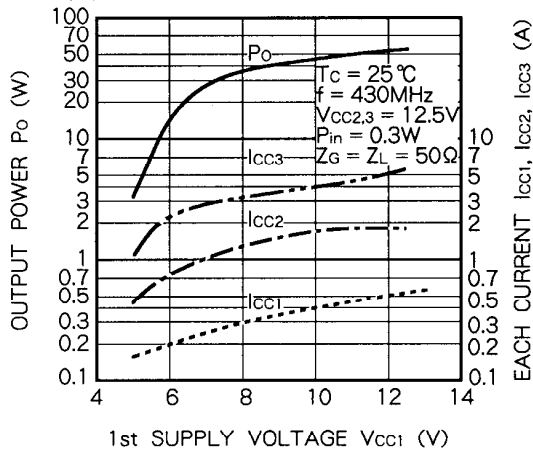
OUTPUT POWER, EACH CURRENT VS. 1st SUPPLY VOLTAGE CHARACTERISTICS



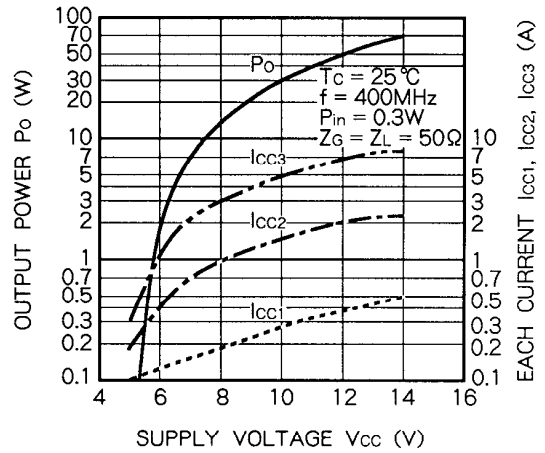
OUTPUT POWER, EACH CURRENT VS. 1st SUPPLY VOLTAGE CHARACTERISTICS



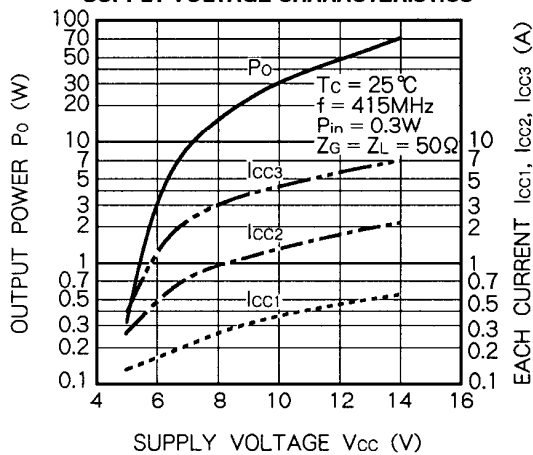
OUTPUT POWER, EACH CURRENT VS.  
1st SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, EACH CURRENT VS.  
SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, EACH CURRENT VS.  
SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, EACH CURRENT VS.  
SUPPLY VOLTAGE CHARACTERISTICS

