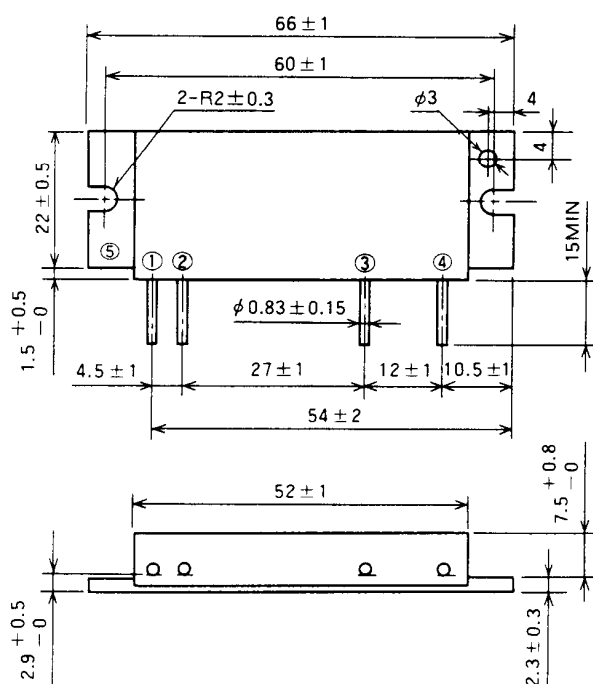
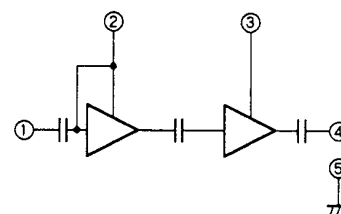


Dimensions in mm



H2

BLOCK DIAGRAM



PIN :

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

Symbol	Parameter	Conditions	Ratings	Unit
V _{CC1}	Supply voltage		16	V
V _{CC2}			17	V
I _{CC}	Total current		12	A
P _{in(max)}	Input power	Z _G = Z _L = 50 Ω, V _{CC1} ≤ 12.5V	0.6	W
P _{O(max)}	Output power	Z _G = Z _L = 50 Ω	50	W
T _{C(OP)}	Operation case temperature		− 30 to 110	°C
T _{stg}	Storage temperature		− 40 to 110	°C

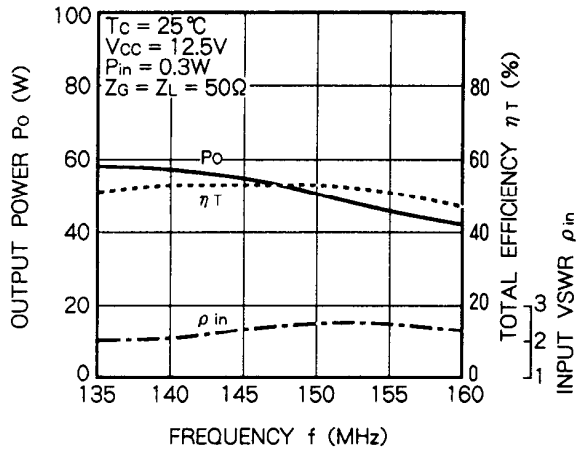
ELECTRICAL CHARACTERISTICS ($T_C = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	$P_{in} = 0.3W$ $V_{CC} = 12.5V$ $Z_G = Z_L = 50 \Omega$	135	160	MHz
P_o	Output power		40		W
η_T	Total efficiency		40		%
2fo	2nd. harmonic			- 30	dBc
3fo	3rd. harmonic			- 30	dBc
ρ_{in}	Input VSWR			3.0	-
-	Load VSWR tolerance	$V_{CC} = 15.2V, P_o = 40W (P_{in}: \text{controlled})$ Load VSWR=8.8:1 (All phase), 5sec. $Z_G = 50 \Omega$	No degradation or destroy		-

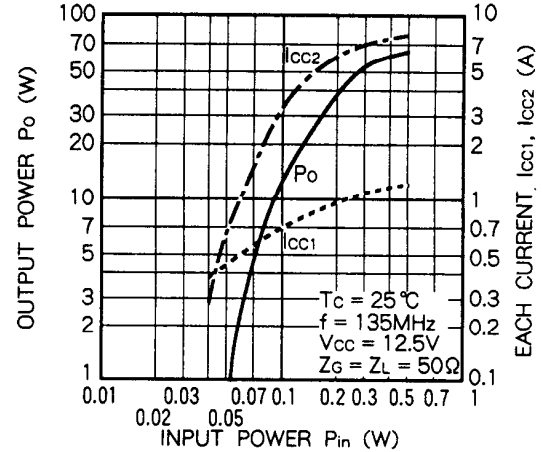
NOV. '97

TYPICAL PERFORMANCE DATA

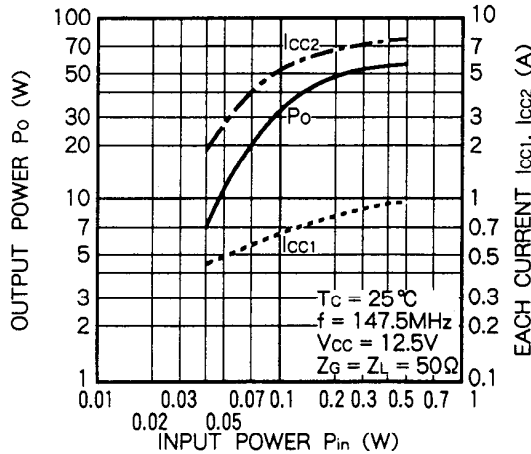
OUTPUT POWER, TOTAL EFFICIENCY, INPUT VSWR
VS. FREQUENCY CHARACTERISTICS



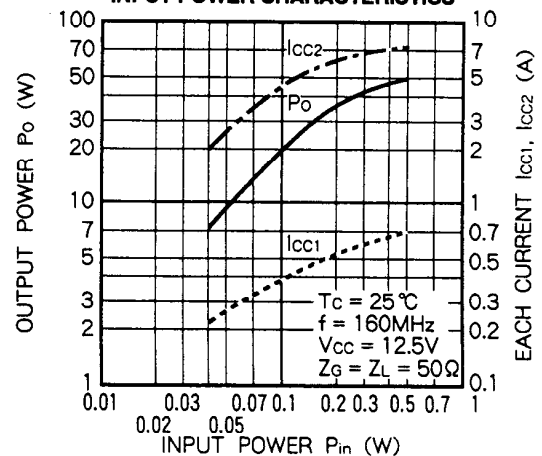
OUTPUT POWER, EACH CURRENT VS.
INPUT POWER CHARACTERISTICS



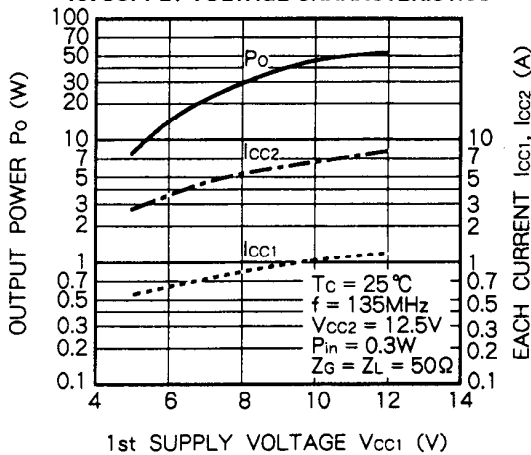
OUTPUT POWER, EACH CURRENT VS.
INPUT POWER CHARACTERISTICS



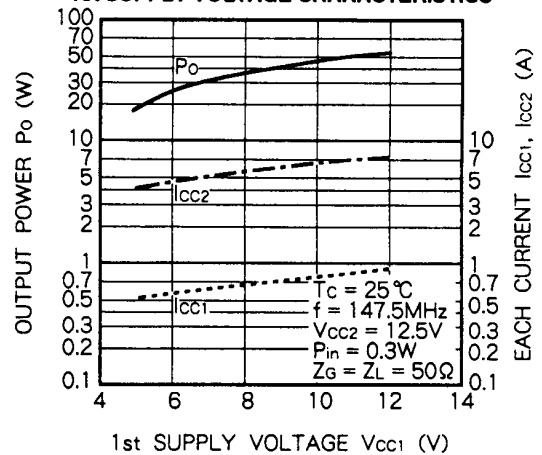
OUTPUT POWER, EACH CURRENT VS.
INPUT POWER CHARACTERISTICS



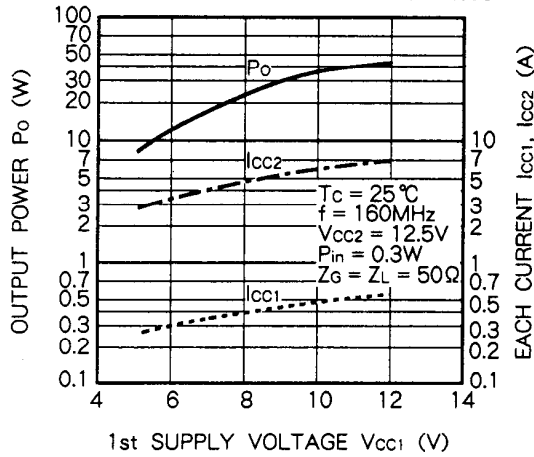
OUTPUT POWER, EACH CURRENT VS.
1st SUPPLY VOLTAGE CHARACTERISTICS



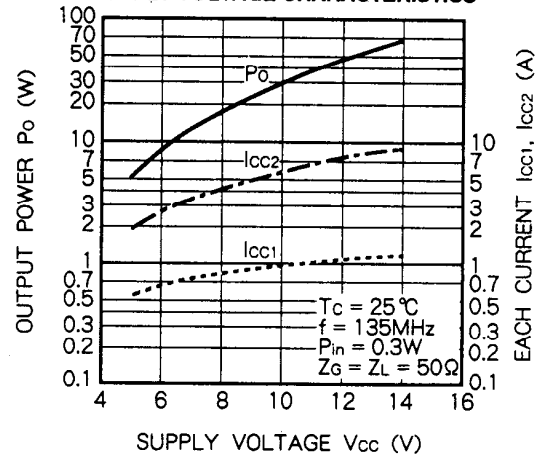
OUTPUT POWER, EACH CURRENT VS.
1st SUPPLY VOLTAGE CHARACTERISTICS



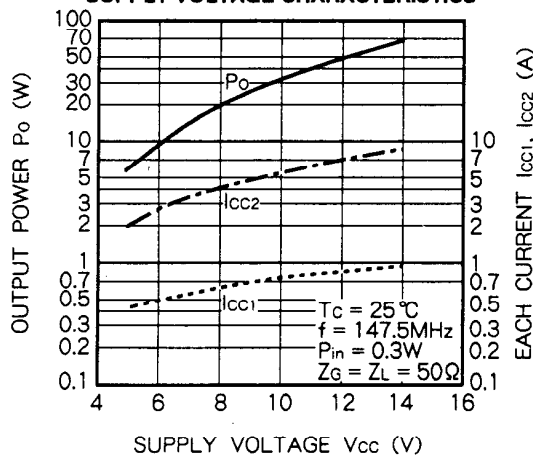
OUTPUT POWER, EACH CURRENT VS.
1st SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, EACH CURRENT VS.
SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, EACH CURRENT VS.
SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, EACH CURRENT VS.
SUPPLY VOLTAGE CHARACTERISTICS

