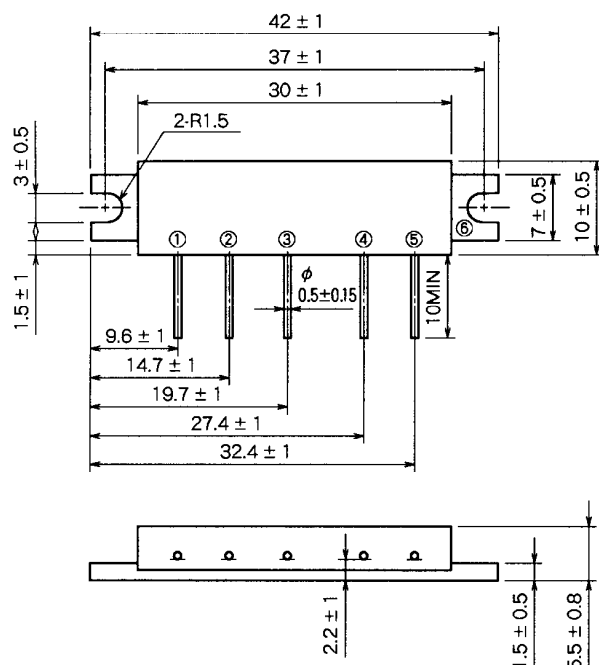


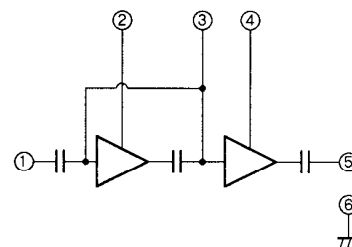
OUTLINE DRAWING

Dimensions in mm



H27

BLOCK DIAGRAM



PIN :

- ①Pin : RF INPUT
- ②Vcc1 : 1st. DC SUPPLY
- ③VBB : BASE BIAS SUPPLY
- ④Vcc2 : 2nd. DC SUPPLY
- ⑤Po : RF OUTPUT
- ⑥GND : FIN

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

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage	VBB = 5V	15	V
VBB	Base bias		5.5	V
Icc	Total current		4	A
Pin(max)	Input power	ZG = ZL = 50 Ω, Vcc1 ≤ 12.5V	40	mW
Po(max)	Output power	ZG = ZL = 50 Ω	10	W
Tc(OP)	Operation case temperature		- 30 to 110	°C
Tstg	Storage temperature		- 40 to 110	°C

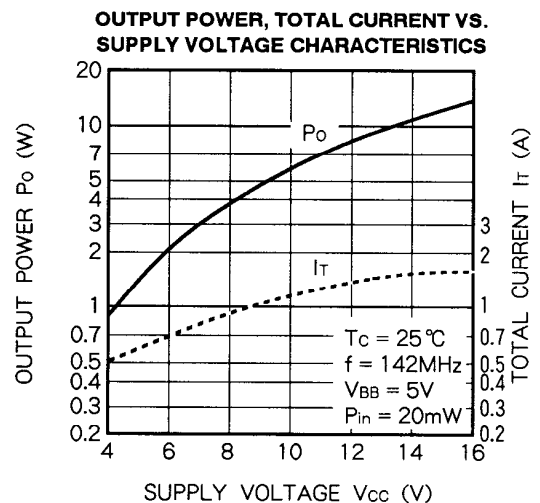
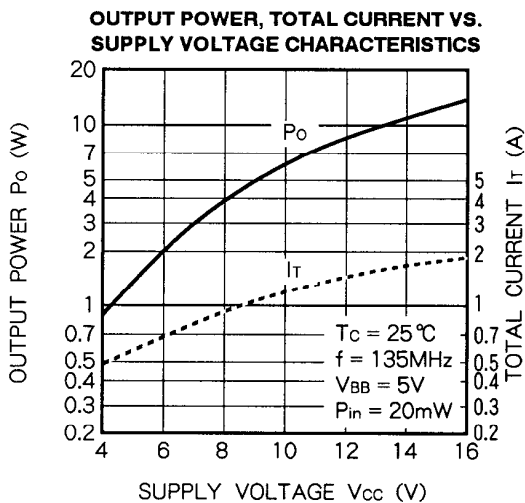
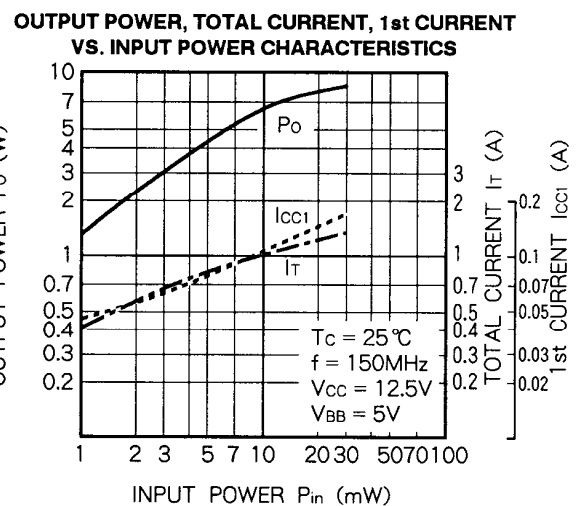
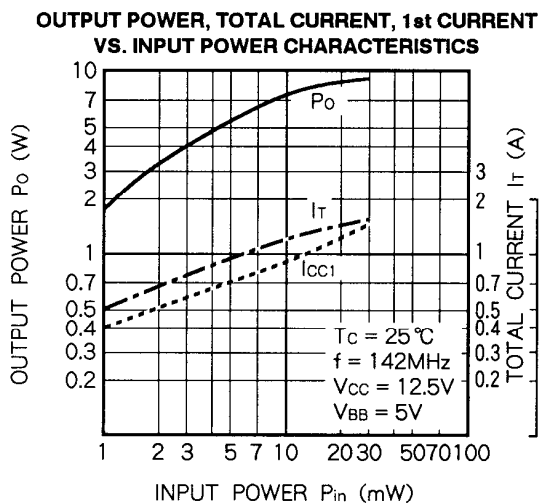
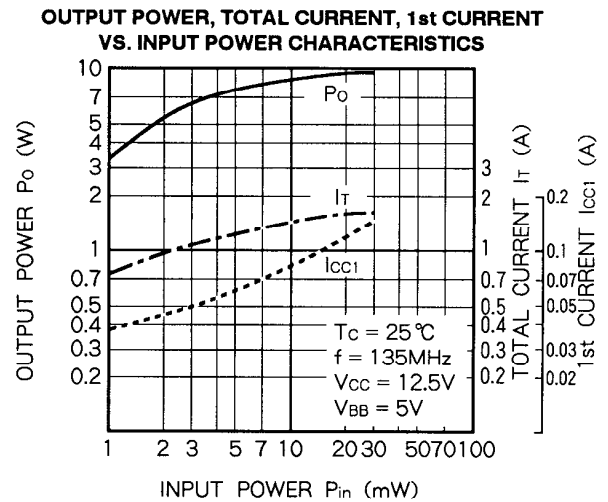
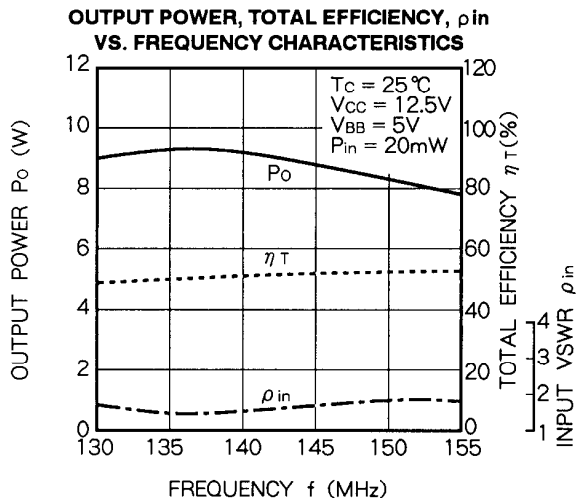
Note. Above parameters are guaranteed independently.

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

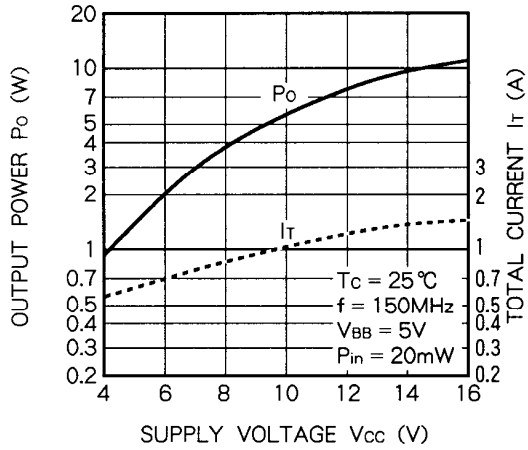
Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	Pin = 20mW VBB = 5V Vcc = 12.5V ZG = ZL = 50 Ω	135	150	MHz
Po	Output power		7		W
ηT	Total efficiency		45		%
2fo	2nd. harmonic			- 20	dBc
3fo	3rd. harmonic			- 25	dBc
ρin	Input VSWR			2.5	-
-	Load VSWR tolerance	Vcc2 = 13.2V, VBB = 5V Po = 7W(Vcc1 : controlled)Pin = 20mW Load VSWR=20:1 (All phase), 2sec. ZG = 50Ω	No degradation or destroy		-

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

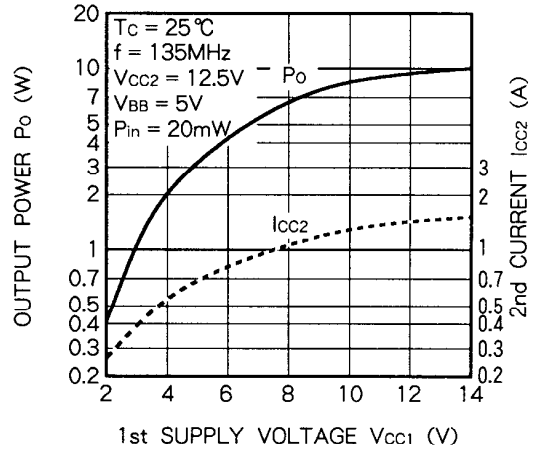
TYPICAL PERFORMANCE DATA



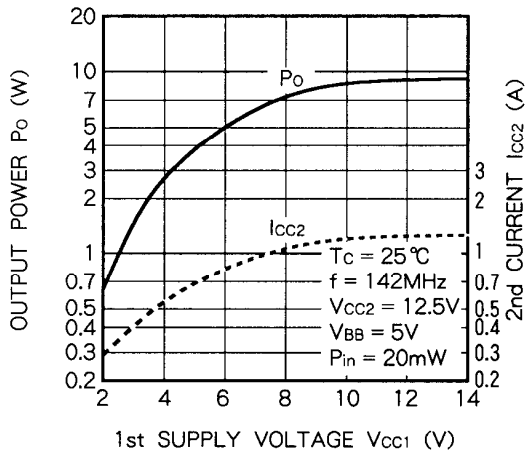
OUTPUT POWER, TOTAL CURRENT VS.
SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, 2nd CURRENT VS.
1st SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, 2nd CURRENT VS.
1st SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, 2nd CURRENT VS.
1st SUPPLY VOLTAGE CHARACTERISTICS

