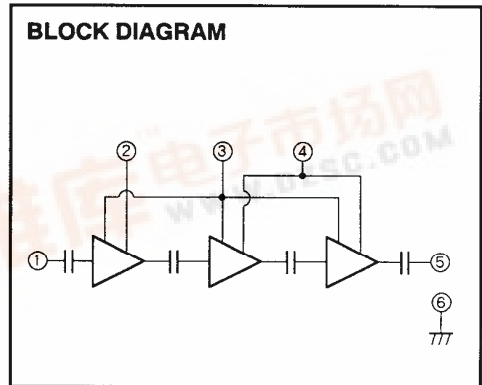
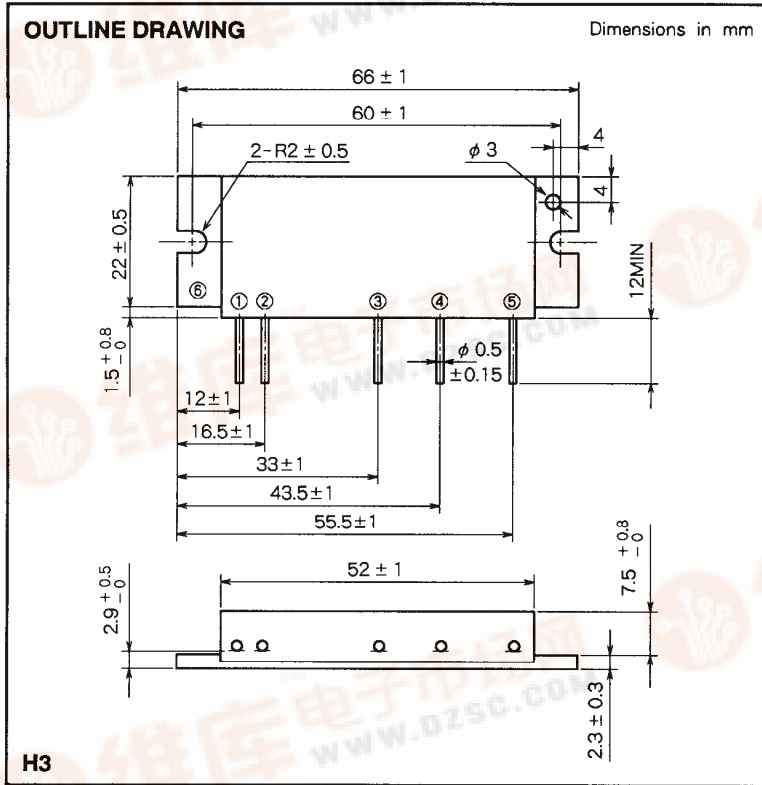


M67711

1240-1300MHz, 12.5V, 16W, FM MOBILE RADIO



PIN :

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

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

Symbol	Parameter	Conditions	Ratings	Unit
V _{CC1, 2}	Supply voltage		17	V
V _{BB}	Base bias		10	V
I _{CC}	Total current		8	A
P _{in(max)}	Input power	V _{CC1} =12.5V, V _{BB} =9V, Z _G =Z _L =50Ω	2	W
P _{O(max)}	Output power	Z _G = Z _L = 50 Ω	20	W
T _{C(OP)}	Operation case temperature		- 30 to 110	°C
T _{stg}	Storage temperature		- 40 to 110	°C

Note. Above parameters are guaranteed independently.

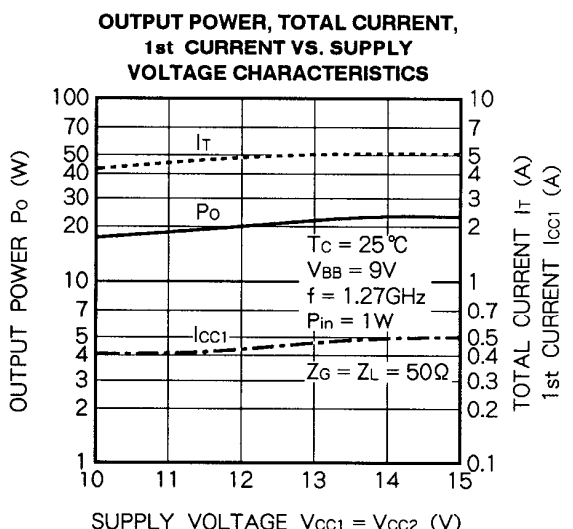
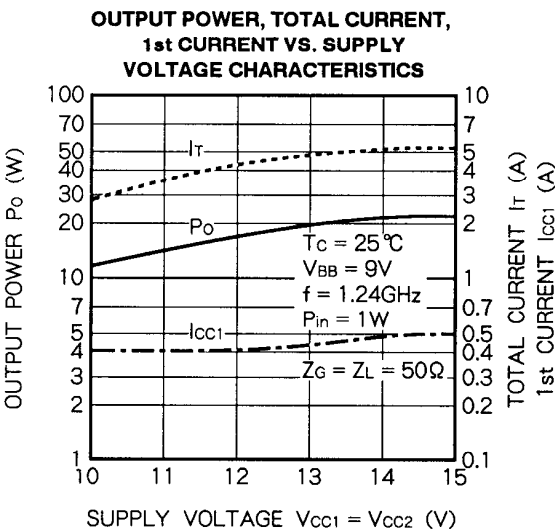
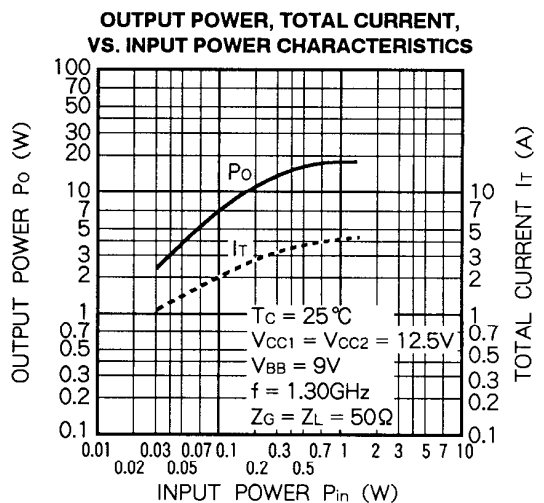
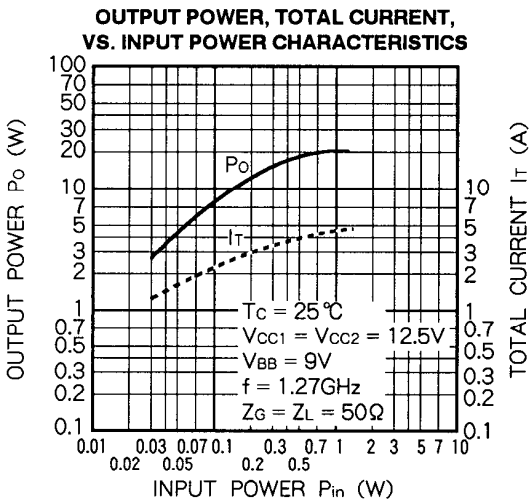
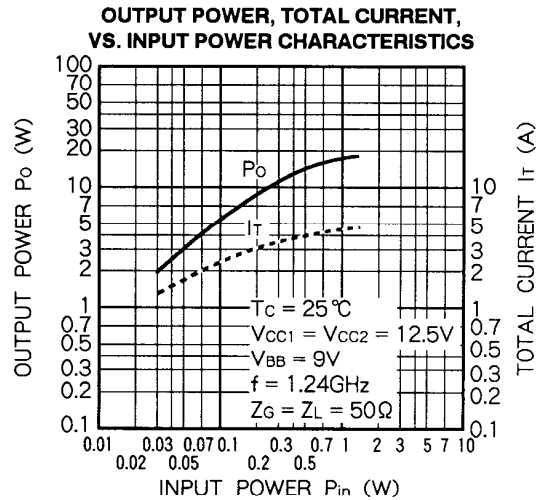
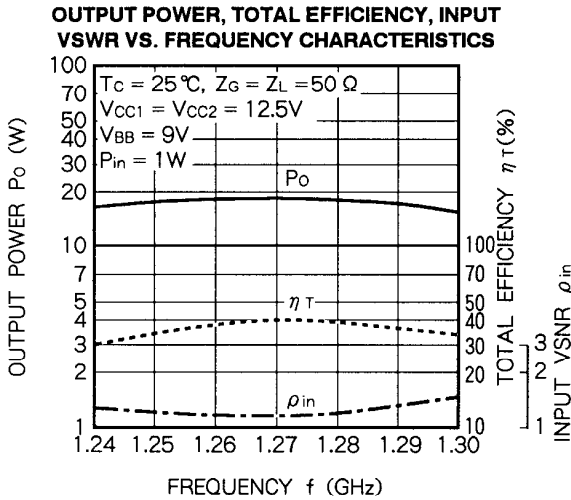
ELECTRICAL CHARACTERISTICS (T_c = 25 °C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	V _{CC1} = V _{CC2} = 12.5V V _{BB} = 9V P _{in} = 1W Z _G = Z _L = 50 Ω	1240	1300	MHz
P _o	Output power		16		W
η _T	Total efficiency		28		%
2f _o	2nd.. harmonic		- 45		dBc
ρ _{in}	Input VSWR		2.0		-
-	Load VSWR tolerance	V _{CC1} = V _{CC2} = 15.2V, V _{BB} = 9V P _o = 16W (P _{in} : controlled) Load VSWR=16:1(All phase)	No degradation or destroy		-

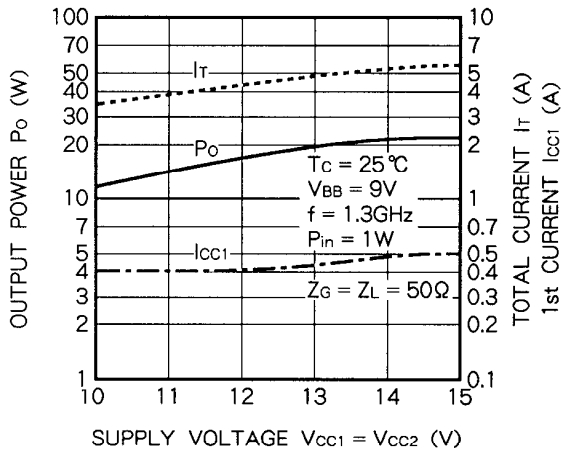
Note. Above parameters, ratings, limits and conditions are subject to change.



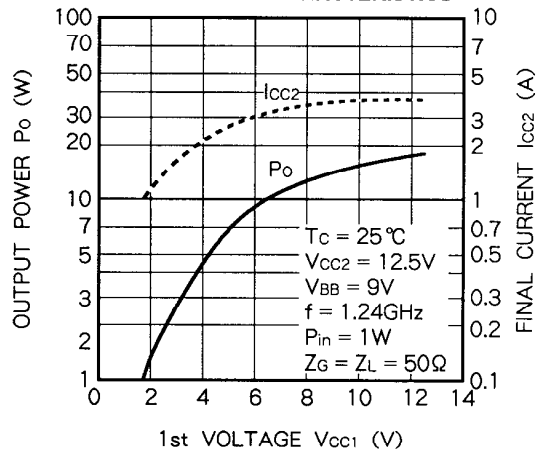
TYPICAL PERFORMANCE DATA



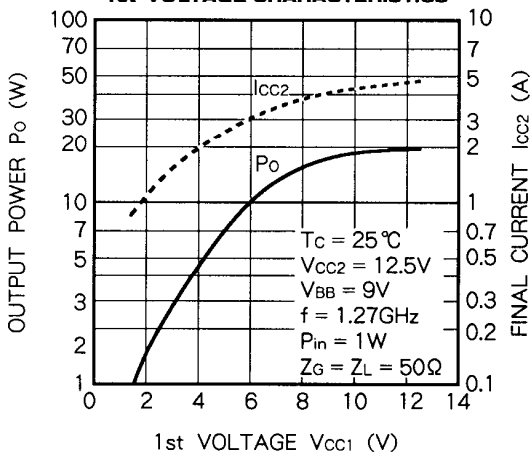
OUTPUT POWER, TOTAL CURRENT, 1st CURRENT VS. SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, FINAL CURRENT VS. 1st VOLTAGE CHARACTERISTICS



OUTPUT POWER, FINAL CURRENT VS. 1st VOLTAGE CHARACTERISTICS



OUTPUT POWER, FINAL CURRENT VS. 1st VOLTAGE CHARACTERISTICS

