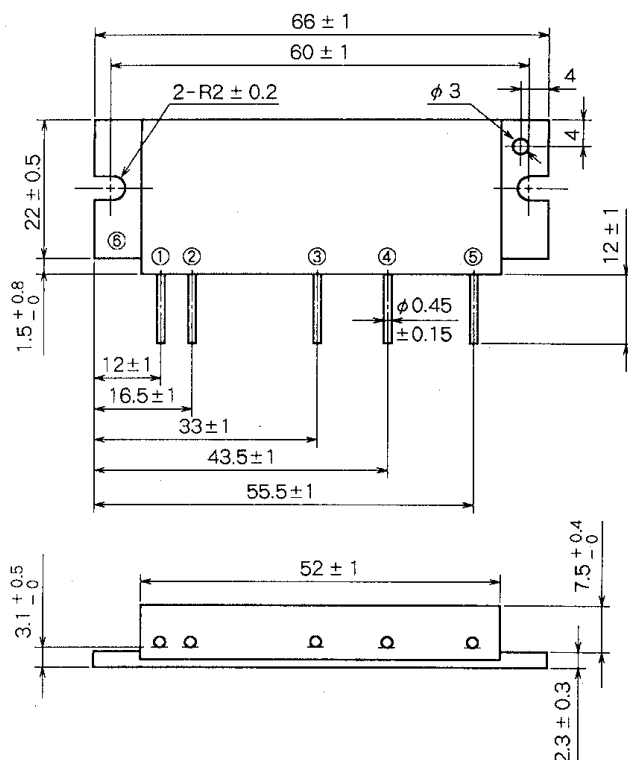


M57704L

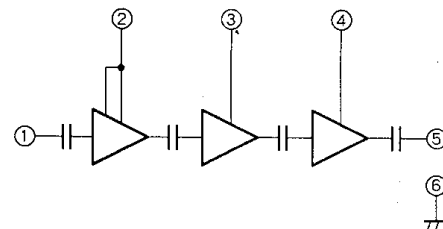
400-420MHz, 12.5V, 13W, FM MOBILE RADIO

OUTLINE DRAWING

Dimensions in mm



BLOCK DIAGRAM



PIN :

- ①Pin : RF INPUT
- ②Vcc1 : 1st. DC SUPPLY
- ③Vcc2 : 2nd. DC SUPPLY
- ④Vcc3 : 3rd. DC SUPPLY
- ⑤Po : RF OUTPUT
- ⑥GND : FIN

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

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage		17	V
Icc	Total current		5	A
Pin(max)	Input power	ZG = ZL = 50 Ω	0.4	W
Po(max)	Output power	ZG = ZL = 50 Ω	20	W
Tc(OP)	Operation case temperature		- 30 to 110	°C
Tstg	Storage temperature		- 40 to 110	°C

Note. Above parameters are guaranteed independently.

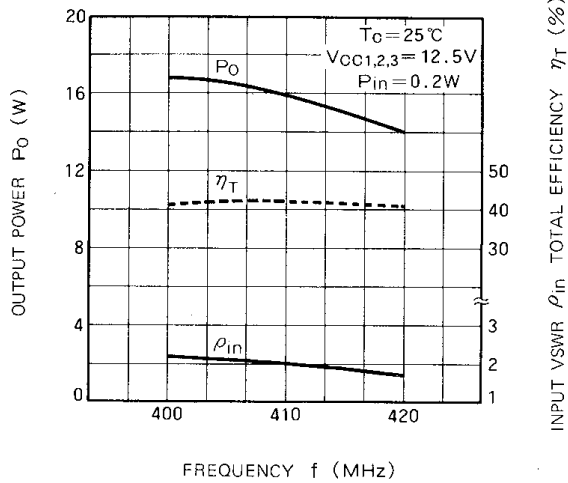
ELECTRICAL CHARACTERISTICS (Tc = 25 °C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	Pin = 0.2W Vcc1,2,3 = 12.5V ZG = ZL = 50 Ω	400	420	MHz
Po	Output power		13		W
ηT	Total efficiency		35		%
2fo	2nd. harmonic			- 30	dBc
ρin	Input VSWR			2.8	-
-	Load VSWR tolerance	Vcc1,2,3 = 15.2V, Po = 14W (Pin : controlled) Load VSWR=20:1 (All phase), 2sec. ZG = 50 Ω	No degradation or destroy		-

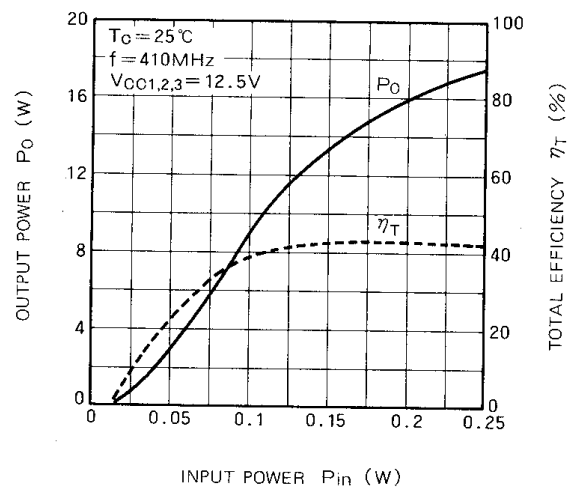
Note. Above parameters, ratings, limits and conditions are subject to change.

TYPICAL PERFORMANCE DATA

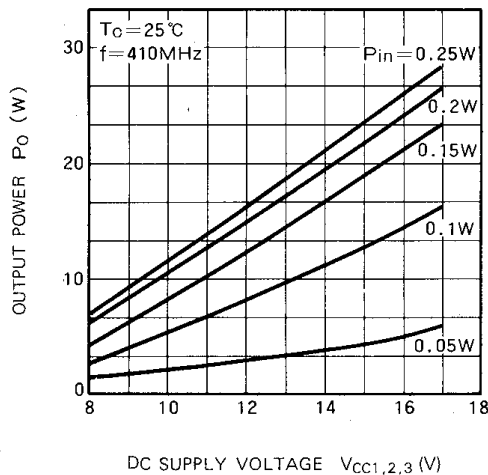
OUTPUT POWER TOTAL EFFICIENCY
INPUT VSWR VS. FREQUENCY



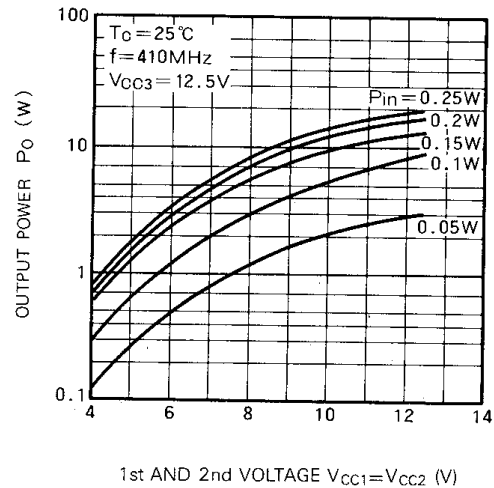
OUTPUT POWER TOTAL EFFICIENCY
VS. INPUT POWER



OUTPUT POWER VS. DC SUPPLY
VOLTAGE



OUTPUT POWER VS. 1st AND 2nd
VOLTAGE



INPUT IMPEDANCE: OUTPUT IMPEDANCE

