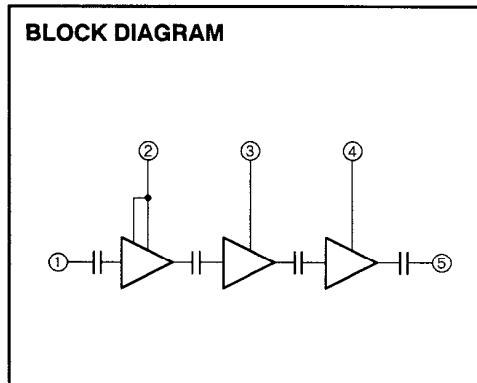
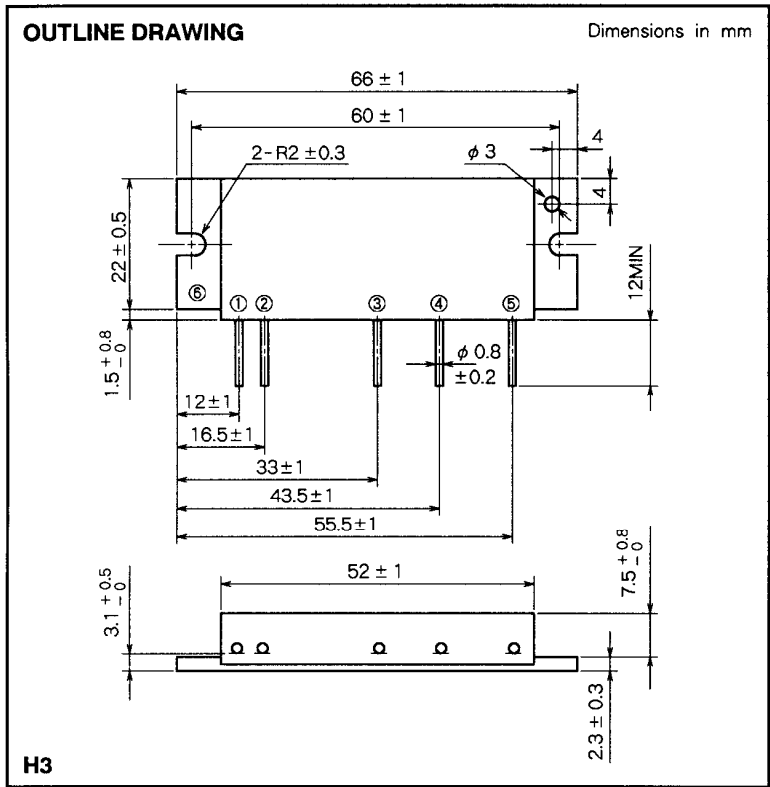


M57729H

450-470MHz, 12.5V, 30W, FM MOBILE RADIO



- 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		10	A
Pin(max)	Input power	ZG = ZL = 50 Ω	0.4	W
Po(max)	Output power	ZG = ZL = 50 Ω	40	W
Tc(OP)	Operation case temperature		- 30 to 110	°C
Tstg	Storage temperature		- 40 to 110	°C

Note. Above parameters are guaranteed independently.

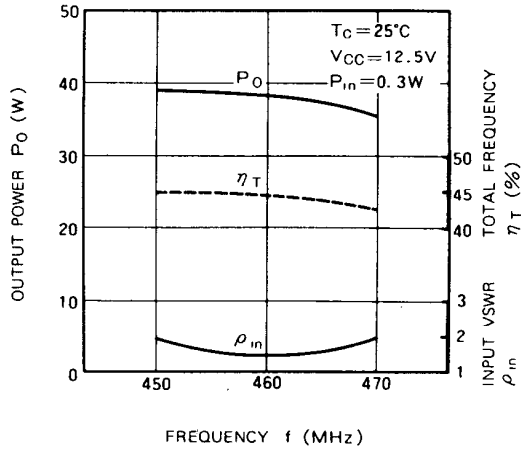
ELECTRICAL CHARACTERISTICS (Tc = 25 °C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	Pin = 0.3W Vcc = 12.5V ZG = ZL = 50 Ω	450	470	MHz
Po	Output power		30		W
η _T	Total efficiency		40		%
2fo	2nd. harmonic			- 30	dBc
3fo	3rd. harmonic			- 30	dBc
ρ _{in}	Input VSWR			2.8	-
-	Load VSWR tolerance	Vcc = 15.2V, Po = 30W (Pin : controlled) Load VSWR=20:1 (All phase), 2sec. ZG = 50 Ω	No degradation or destroy		-

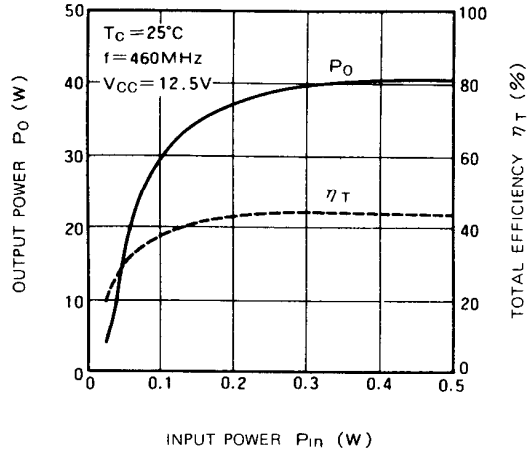
Note. Above parameters, ratings, limits and conditions are subject to change.

TYPICAL PERFORMANCE DATA

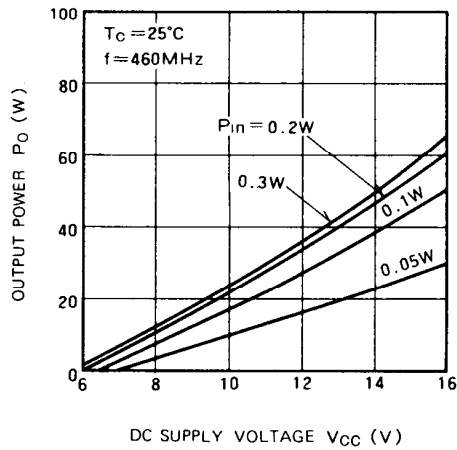
OUTPUT POWER, TOTAL EFFICIENCY, INPUT VSWR VS. FREQUENCY (M57729H)



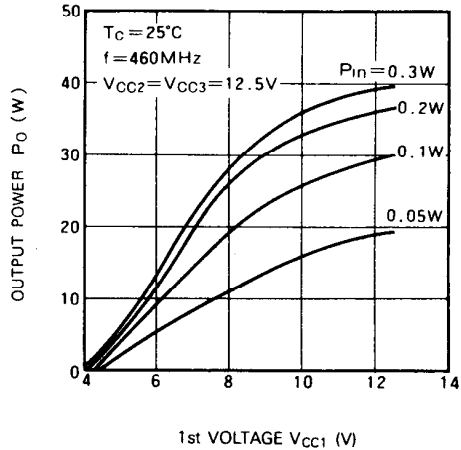
OUTPUT POWER, TOTAL EFFICIENCY, VS. INPUT POWER (M57729H)



OUTPUT POWER VS. DC SUPPLY VOLTAGE (M57729H)



OUTPUT POWER VS. 1st VOLTAGE (M57729H)



OUTPUT IMPEDANCE, INPUT IMPEDANCE VS. FREQUENCY (M57729H)

