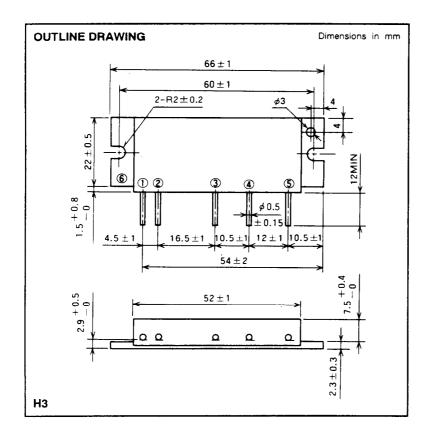
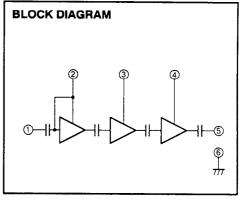
M57704H

450-470MHz, 12.5V, 13W, FM MOBILE RADIO





PIN:

① Pin : RF INPUT ② VCC1 : 1st. DC SUPPLY ③ VCC2 : 2nd. DC SUPPLY ④ VCC3 : 3rd. DC SUPPLY ⑤ PO : RF OUTPUT ⑥ GND : FIN

ABSOLUTE MAXIMUM RATINGS (Tc = 25 ℃ unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit V A W
Vcc	Supply voltage		17	
Icc	Total current		5	
Pin(max)	Input power	$Z_G = Z_L = 50 \Omega$	0.4	
Po(max)	Output power	$Z_G = Z_L = 50 \Omega$	20	W
Tc(op)	Operation case temperature		- 30 to 110	೪೦
Tstg	Storage temperature		- 40 to 110	ొ

Note. Above parameters are guaranteed independently.

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

Symbol	Parameter	Test conditions	Limits		
			Min	Max	Unit
f	Frequency range		450	470	MHz
Po	Output power	Pin = 0.2W	13		W
ηΤ	Total efficiency	$V_{CC} = 12.5V$ $Z_{G} = Z_{L} = 50 \Omega$	35		%
2fo	2nd. harmonic			- 30	dBc
<i>p</i> in	Input VSWR			2.8	_
_	Load VSWR tolerance	Vcc = 15.2V, Po = 14W (Pin : controlled) Load VSWR=20:1 (All phase), 2sec. $Z_G = 50 \Omega$	No degradation or destroy		_

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

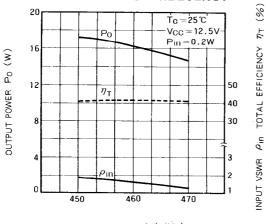


M57704H

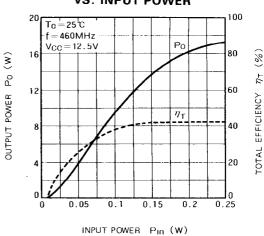
450-470MHz, 12.5V, 13W, FM MOBILE RADIO

TYPICAL PERFORMANCE DATA

OUTPUT POWER TOTAL EFFICIENCY INPUT VSWR VS. FREQUENCY

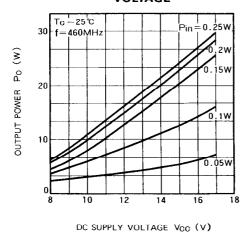


OUTPUT POWER TOTAL EFFICIENCY VS. INPUT POWER

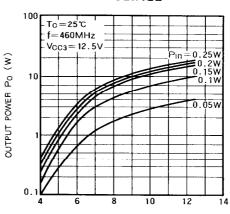


FREQUENCY f (MHz)

OUTPUT POWER VS. DC SUPPLY VOLTAGE



OUTPUT POWER VS. 1st AND 2nd VOLTAGE



1st AND 2nd VOLTAGE V_{CC1}=V_{CC2} (V)

INPUT IMPEDANCE OUTPUT IMPEDANCE

