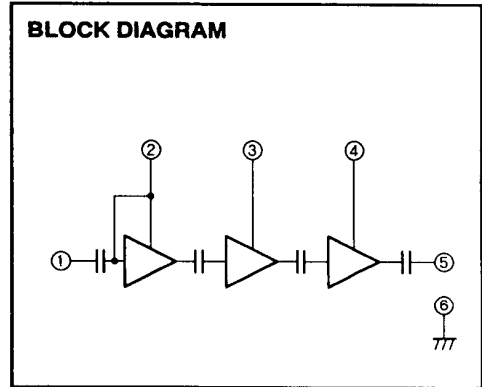
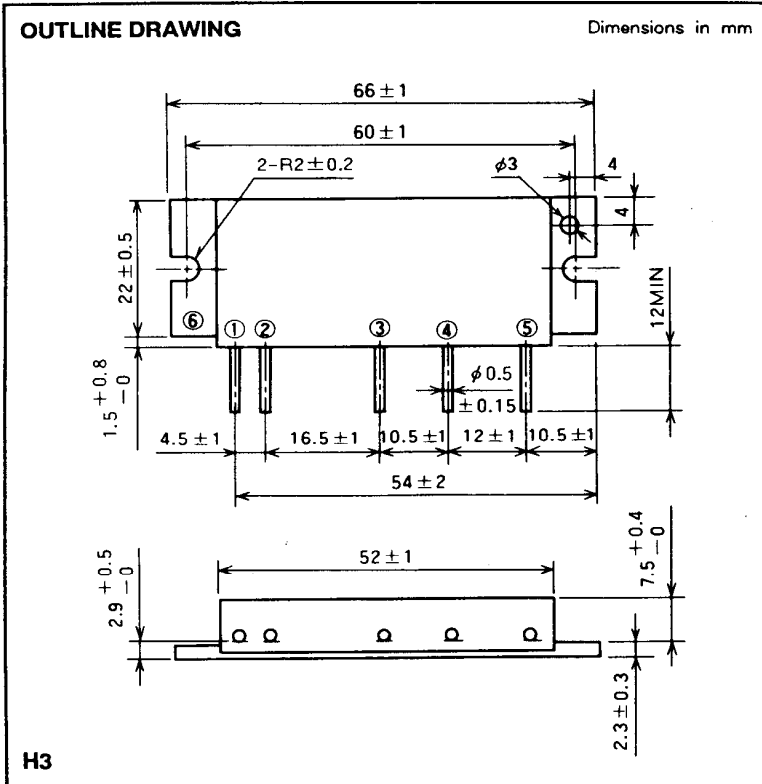


M57704SL

360-380MHz, 12.5V, 13W, FM MOBILE RADIO



- PIN :**
- ① P_{in} : RF INPUT
 - ② V_{CC1} : 1st. DC SUPPLY
 - ③ V_{CC2} : 2nd. DC SUPPLY
 - ④ V_{CC3} : 3rd. DC SUPPLY
 - ⑤ P_o : RF OUTPUT
 - ⑥ GND : FIN

ABSOLUTE MAXIMUM RATINGS ($T_c = 25^\circ C$ unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
V_{cc}	Supply voltage		17	V
I_{cc}	Total current		5	A
$P_{in(max)}$	Input power	$Z_G = Z_L = 50 \Omega$	0.4	W
$P_{O(max)}$	Output power	$Z_G = Z_L = 50 \Omega$	20	W
$T_{c(OP)}$	Operation case temperature		- 30 to 110	$^\circ C$
T_{stg}	Storage temperature		- 40 to 110	$^\circ C$

Note. Above parameters are guaranteed independently.

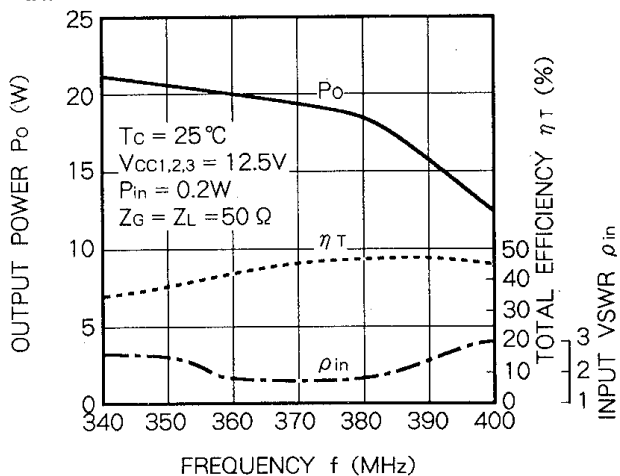
ELECTRICAL CHARACTERISTICS ($T_c = 25^\circ C$ unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit	
			Min	Max		
f	Frequency range	$P_{in} = 0.2W$ $V_{cc} = 12.5V$ $Z_G = Z_L = 50 \Omega$	360	380	MHz	
P_o	Output power		13		W	
η_T	Total efficiency		35		%	
$2f_o$	2nd. harmonic			- 30		dBc
ρ_{in}	Input VSWR			2.8		-
-	Load VSWR tolerance	$V_{cc} = 15.2V,$ $P_o = 14W$ (P_{in} : controlled) Load VSWR=20:1 (All phase), 2sec. $Z_G = 50 \Omega$	No degradation or destroy		-	

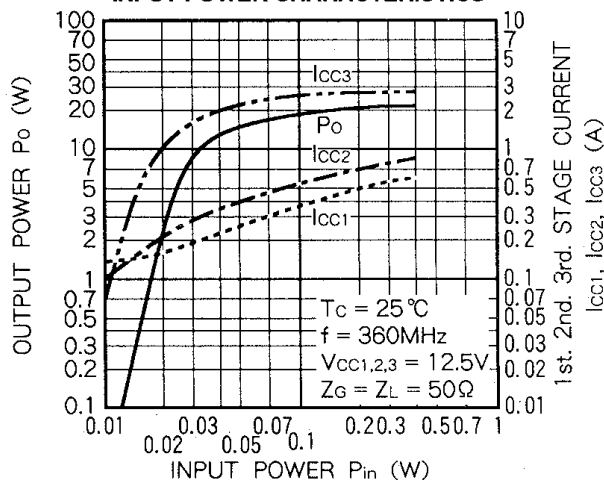
Note. Above parameters, ratings, limits and conditions are subject to change.

TYPICAL PERFORMANCE DATA

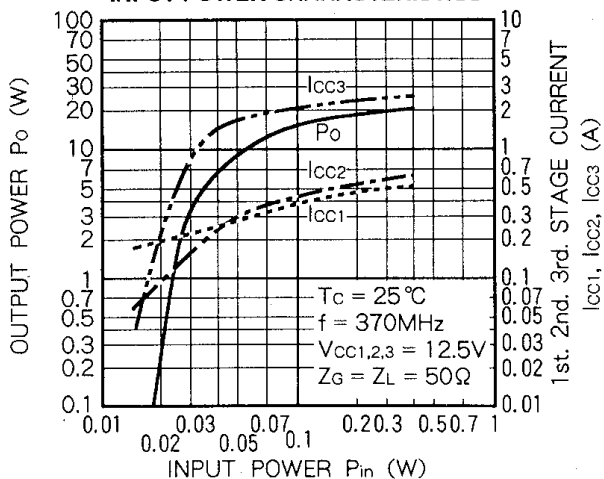
OUTPUT POWER, TOTAL EFFICIENCY, INPUT VSWR VS. FREQUENCY CHARACTERISTICS



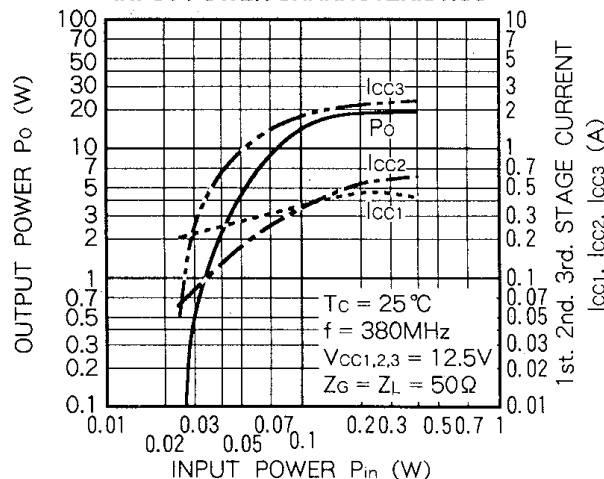
OUTPUT POWER, 1st. 2nd. 3rd. STAGE CURRENT VS. INPUT POWER CHARACTERISTICS



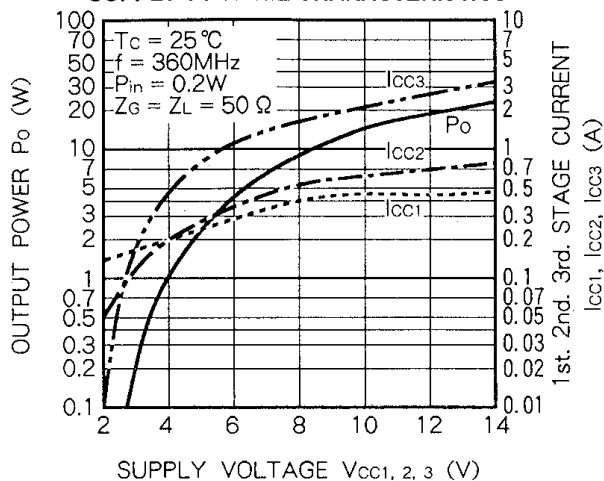
OUTPUT POWER, 1st. 2nd. 3rd. STAGE CURRENT VS. INPUT POWER CHARACTERISTICS



OUTPUT POWER, 1st. 2nd. 3rd. STAGE CURRENT VS. INPUT POWER CHARACTERISTICS



OUTPUT POWER, 1st. 2nd. 3rd. STAGE CURRENT VS. SUPPLY VOLTAGE CHARACTERISTICS



OUTPUT POWER, 1st. 2nd. 3rd. STAGE CURRENT VS. SUPPLY VOLTAGE CHARACTERISTICS

