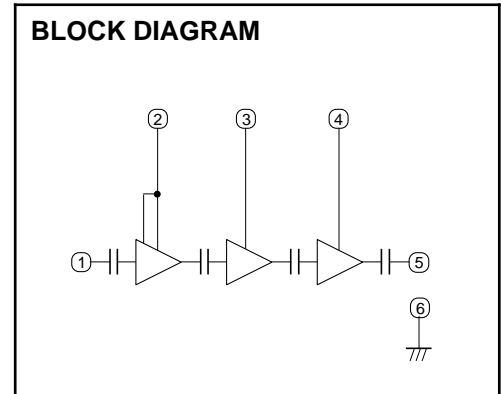
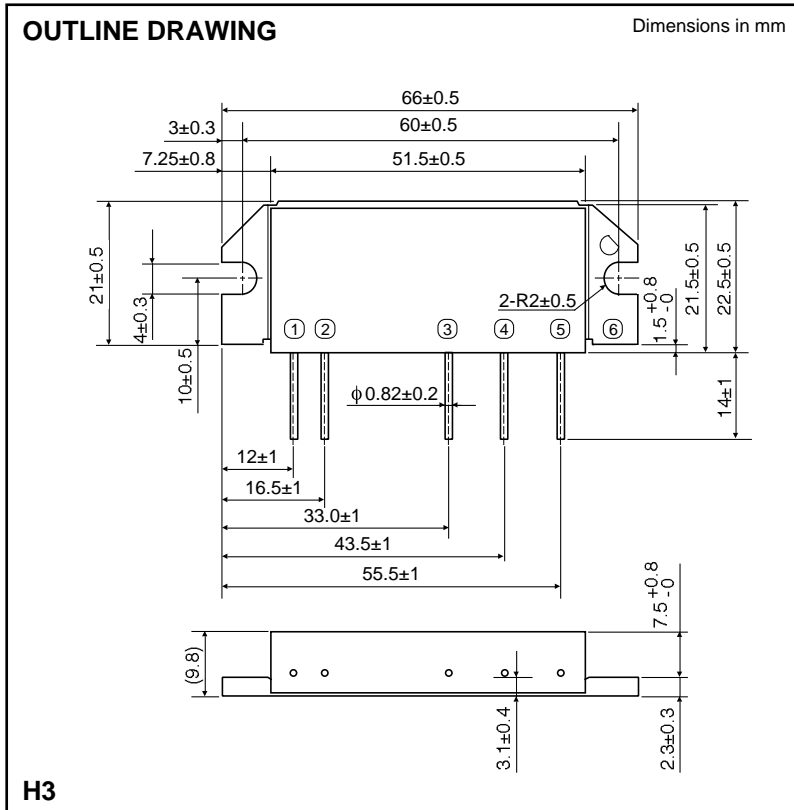


MITSUBISHI RF POWER MODULE
M68762H

440-490MHz, 12.5V, 30W, 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 ($T_c=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage	$Z_G=Z_L=50$	17	V
Icc	Total current	$Z_G=Z_L=50$	10	A
P _{in (max)}	Input power	$Z_G=Z_L=50$, Vcc1 12.5V	600	mW
P _{O (max)}	Output power	$Z_G=Z_L=50$, Vcc1 12.5V	40	W
T _{C (OP)}	Operation case temperature	$Z_G=Z_L=50$, Vcc1 12.5V	-30 to +110	°C
T _{stg}	Storage temperature		-40 to +110	°C

Note. Above each maximum ratings are guaranteed independently.

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

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		440	490	MHz
P _O	Output power		30		W
τ	Total efficiency		40		%
2fo	2nd. harmonic	Vcc=12.5V, P _{in} =300mW, Z _G =Z _L =50		-30	dBc
3fo	3rd. harmonic			-30	dBc
i _{in}	Input VSWR			2.8	-
-	Load VSWR tolerance	Vcc=15.2V, P _O =30W (P _{in} :Controlled), Z _G =50, Load VSWR=20:1 (All phase)	No degradation or destroy		-

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

TYPICAL PERFORMANCE DATA

