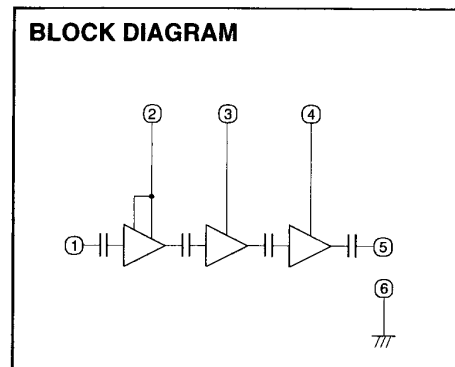
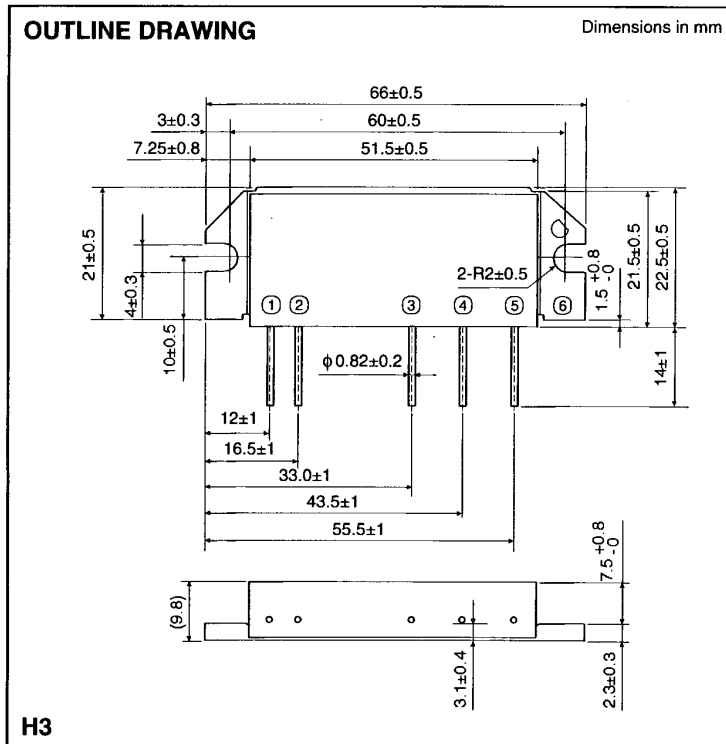


MITSUBISHI RF POWER MODULE
M68703HA

440-470MHz, 12.5V, 50W, 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°C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage	Z _G =Z _L =50Ω	17	V
I _{cc}	Total current	Z _G =Z _L =50Ω	20	A
P _{in} (max)	Input power	Z _G =Z _L =50Ω, V _{CC1} ≤12.5V	600	mW
P _O (max)	Output power	Z _G =Z _L =50Ω, V _{CC1} ≤12.5V	70	W
T _c (OP)	Operation case temperature	Z _G =Z _L =50Ω, V _{CC1} ≤12.5V	-30 to +110	°C
T _{stg}	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		440	470	MHz
P _O	Output power		50		W
η _T	Total efficiency		35		%
2f _o	2nd. harmonic	V _{CC} =12.5V, P _{in} =300mW, Z _G =Z _L =50Ω		-30	dBc
3f _o	3rd. harmonic			-30	dBc
ρ _{in}	Input VSWR			3	-
-	Load VSWR tolerance	V _{CC} =15.2V, P _O =50W (P _{in} :controlled) Z _G =50Ω, Load VSWR=8:1 (All phase)	No degradation or destroy		-

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