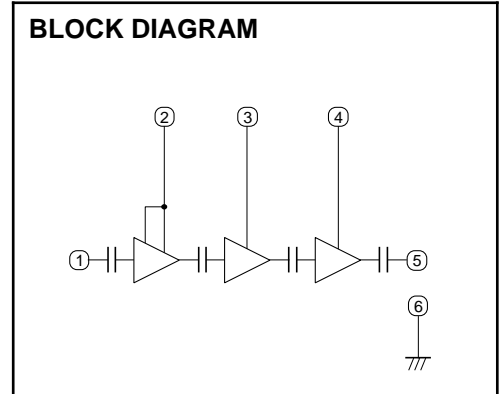
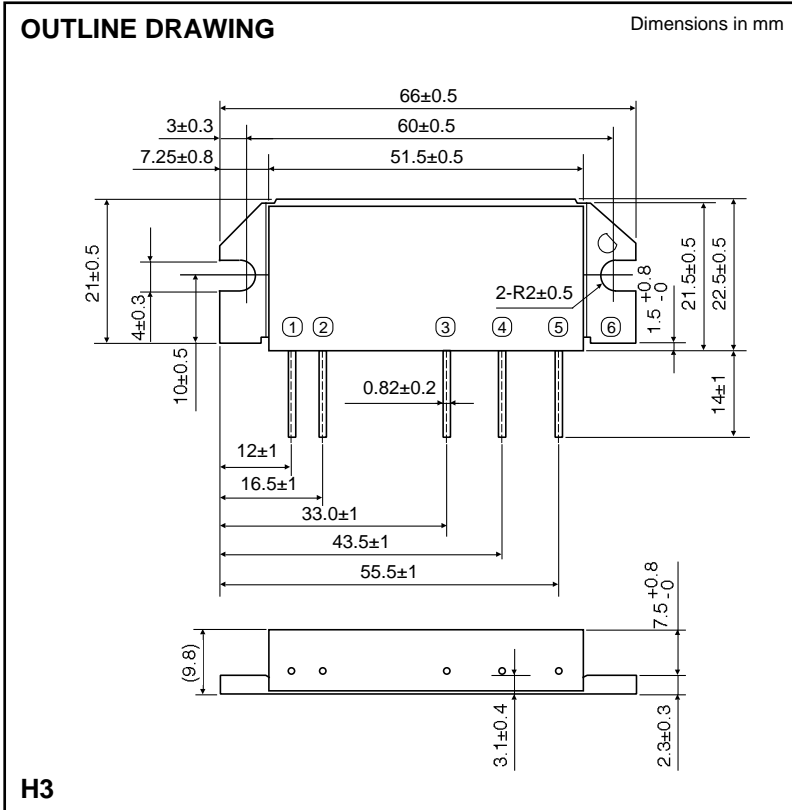


MITSUBISHI RF POWER MODULE
M68703HA

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 (T_c=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
V _{cc}	Supply voltage	Z _G =Z _L =50	17	V
I _{cc}	Total current	Z _G =Z _L =50	20	A
P _{in (max)}	Input power	Z _G =Z _L =50 , V _{cc1} 12.5V	600	mW
P _{O (max)}	Output power	Z _G =Z _L =50 , V _{cc1} 12.5V	70	W
T _{c (OP)}	Operation case temperature	Z _G =Z _L =50 , V _{cc1} 12.5V	-30 to +110	°C
T _{stg}	Storage temperature		-40 to +110	°C

Note. Above parameters are guaranteed independently.

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

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	V _{cc} =12.5V, P _{in} =400mW, Z _G =Z _L =50	440	470	MHz
P _O	Output power		50		W
η	Total efficiency		35		%
2f _o	2nd. harmonic			-30	dBc
3f _o	3rd. harmonic			-30	dBc
in	Input VSWR			3	-
-	Load VSWR tolerance	V _{cc} =15.2V, P _O =50W (P _{in} :controlled) Z _G =50 , Load VSWR=8:1 (All phase)	No degradation or destroy		-

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