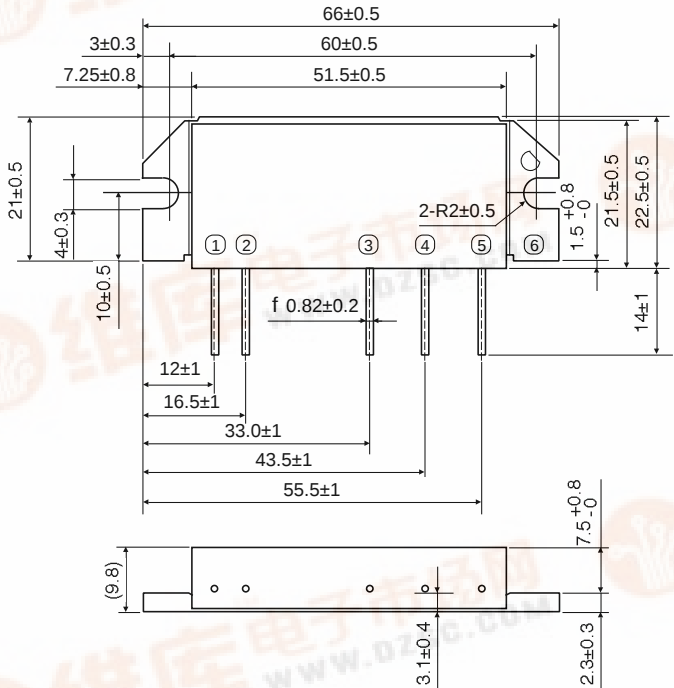


MITSUBISHI RF POWER MODULE
M68703HA

440-470MHz, 12.5V, 50W, FM MOBILE RADIO

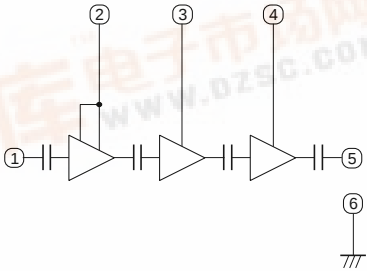
OUTLINE DRAWING

Dimensions in mm



H3

BLOCK DIAGRAM



PIN:

- ①Pin : RF INPUT
- ②Vcc1: 1st. DC SUPPLY
- ③Vcc2: 2nd. DC SUPPLY
- ④Vcc3: 3rd. DC SUPPLY
- ⑤Po : RF OUTPUT
- ⑥GND: FIN

ABSOLUTE MAXIMUM RATINGS (Tc=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage	ZG=ZL=50W	17	V
Icc	Total current	ZG=ZL=50W	20	A
P _{in} (max)	Input power	ZG=ZL=50W, Vcc1£12.5V	600	mW
P _o (max)	Output power	ZG=ZL=50W, Vcc1£12.5V	70	W
T _c (OP)	Operation case temperature	ZG=ZL=50W, Vcc1£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
h _T	Total efficiency	Vcc=12.5V, P _{in} =400mW, ZG=ZL=50W	35		%
2fo	2nd. harmonic			-30	dBc
3fo	3rd. harmonic			-30	dBc
r _{in}	Input VSWR			3	-
	Load VSWR tolerance		No degradation or destroy		-
		Vcc=15.2V, P _o =50W (P _{in} :controlled) ZG=50W, Load VSWR=8:1 (All phase)			

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