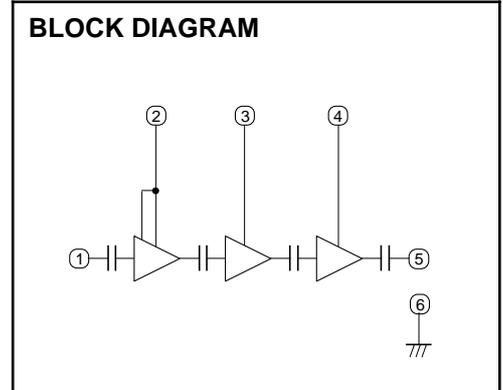
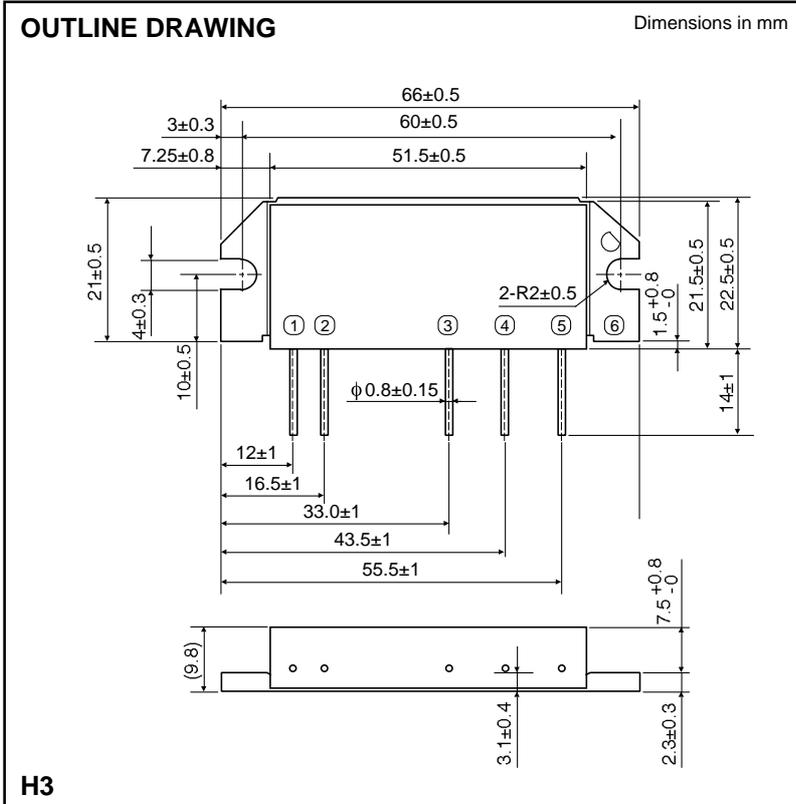


MITSUBISHI RF POWER MODULE  
**M68706H**

300-308MHz, 12.5V, 20W, 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	ZG=ZL=50Ω	17	V
IcC	Total current	ZG=ZL=50Ω	10	A
P <sub>in</sub> (max)	Input power	ZG=ZL=50Ω, VCC1≤12.5V	600	mW
P <sub>O</sub> (max)	Output power	ZG=ZL=50Ω, VCC1≤12.5V	30	W
T <sub>C</sub> (OP)	Operation case temperature	ZG=ZL=50Ω, VCC1≤12.5V	-30 to +110	°C
T <sub>stg</sub>	Storage temperature		-40 to +110	°C

Note. Above each maximum ratings are guaranteed independently.

**ELECTRICAL CHARACTERISTICS** (Tc=25°C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		300	308	MHz
P <sub>O</sub>	Output power	P <sub>in</sub> =300mW, VCC1, 2, 3=12.5V, ZG=ZL=50Ω	20		W
η <sub>T</sub>	Total efficiency		40		%
2f <sub>o</sub>	2nd. harmonic			-30	dBc
3f <sub>o</sub>	3rd. harmonic			-30	dBc
p <sub>in</sub>	Input VSWR			2.8	-
-	Load VSWR tolerance	VCC1, 2, 3=15.2V, P <sub>O</sub> =20W (P <sub>in</sub> :Controlled), ZG=50Ω, 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**

