

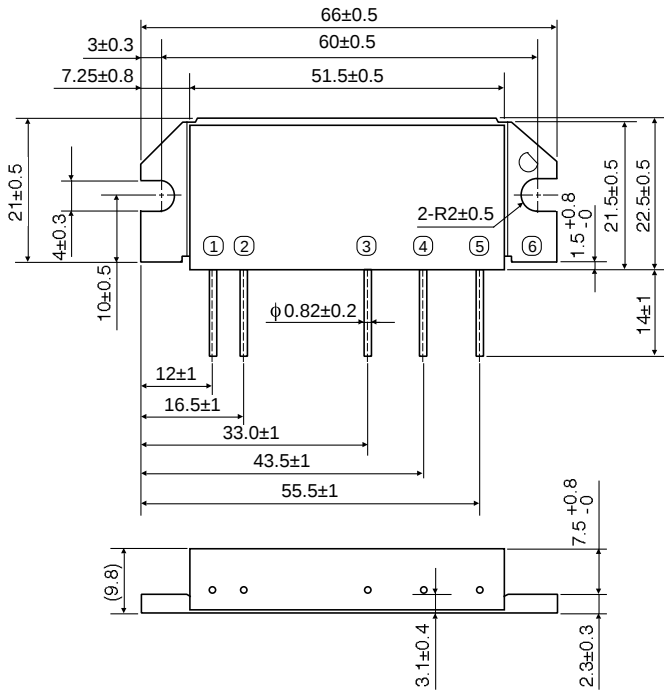
MITSUBISHI RF POWER MODULE

M68762SH

470-520MHz, 12.5V, 30W, FM MOBILE RADIO

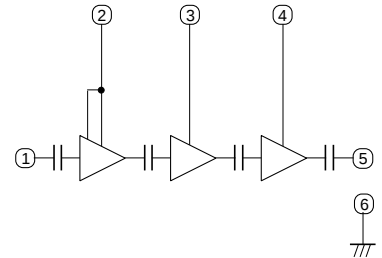
OUTLINE DRAWING

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	10	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	40	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 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		470	520	MHz
P _o	Output power	Vcc=12.5V, P _{in} =300mW, ZG=ZL=50W	30		W
h _T	Total efficiency		35		%
2f _o	2nd. harmonic			-30	dBc
3f _o	3rd. harmonic			-30	dBc
r _{in}	Input VSWR			2.8	-
-	Load VSWR tolerance	Vcc=15.2V, P _o =30W (P _{in} :Controlled), ZG=50W, 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

