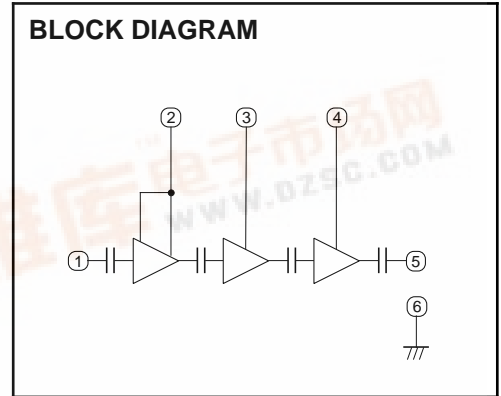
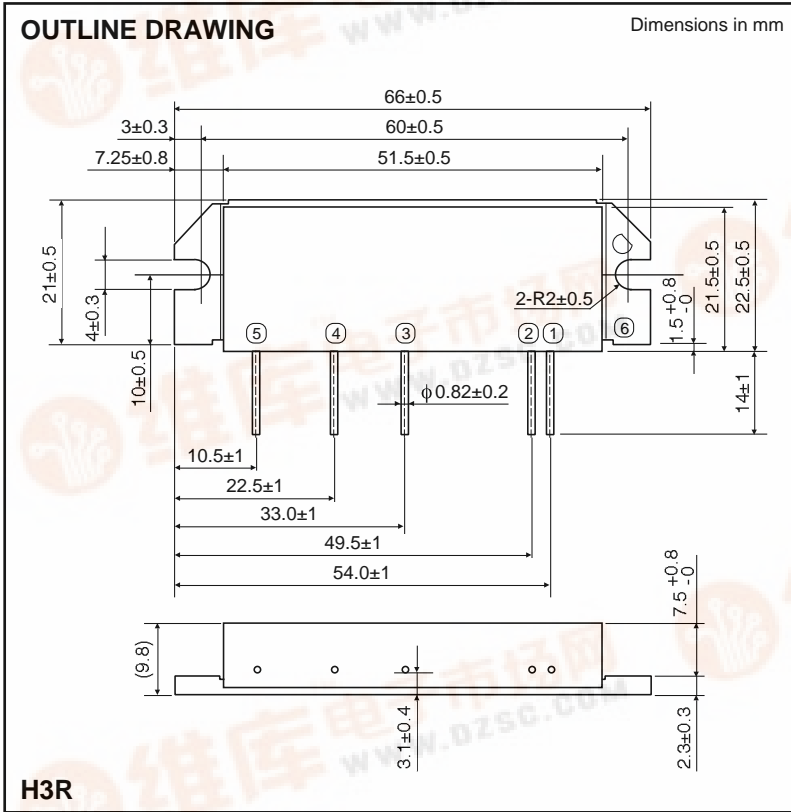


MITSUBISHI RF POWER MODULE

M68751R

430-450MHz, 12.5V, 27W FM MOBILE RADIO



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=50	17	V
Icc	Total current	ZG=ZL=50	7	A
P _{in} (max)	Input power	ZG=ZL=50, Vcc1 12.5V	400	mW
P _o (max)	Output power	ZG=ZL=50, Vcc1 12.5V	40	W
T _c (OP)	Operation case temperature	ZG=ZL=50, 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		430	450	MHz
P _o	Output power		27		W
η	Total efficiency		40		%
2f _o	2nd. harmonic	Vcc=12.5V, P _{in} =200mW, ZG=ZL=50		-30	dBc
3f _o	3rd. harmonic			-30	dBc
in	Input VSWR			2.8	—
	Load VSWR tolerance	Vcc=15.2V, P _o =7W (P _{in} : Control), ZG=50 Load VSWR = 20:1 (All phase)	No degradation or destroy		—

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