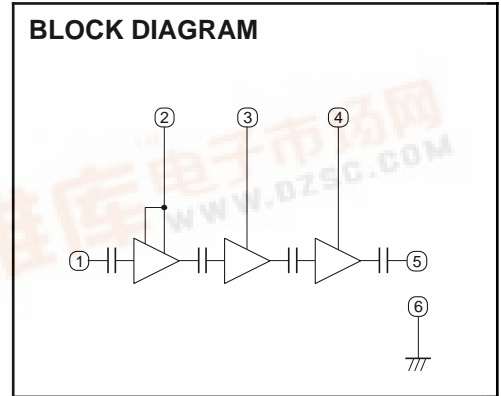
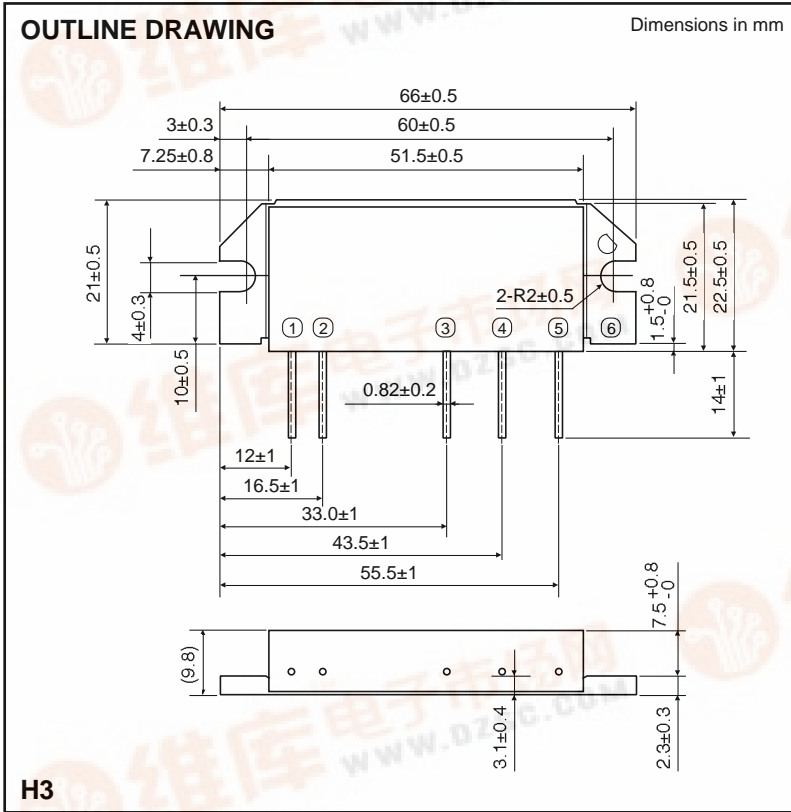


MITSUBISHI RF POWER MODULE

M68769L

400-450MHz, 12.5V, 45W, 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=50	17	V
Icc	Total current	ZG=ZL=50	15	A
Pin (max)	Input power	ZG=ZL=50 , VCC1 12.5V	600	mW
PO (max)	Output power	ZG=ZL=50 , VCC1 12.5V	60	W
Tc (OP)	Operation case temperature	ZG=ZL=50 , VCC1 12.5V	-30 to +110	°C
Tstg	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		400	450	MHz
Po	Output power		45		W
η	Total efficiency		35		%
2fo	2nd. harmonic	VCC=12.5V, Pin=300mW, ZG=ZL=50		-30	dBc
3fo	3rd. harmonic			-30	dBc
in	Input VSWR			2.8	-
	Load VSWR tolerance	VCC=15.2V, Po=45W(Pin:controlled) ZG=50 , Load VSWR=8:1 (All phase)	No degradation or destroy		-

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