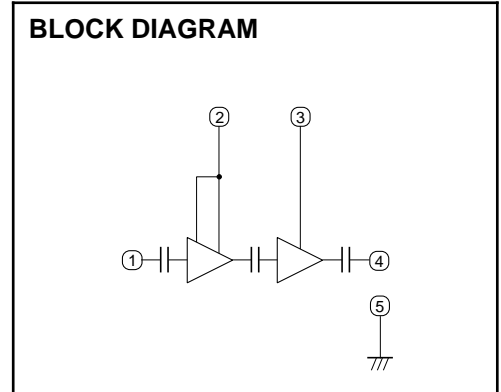
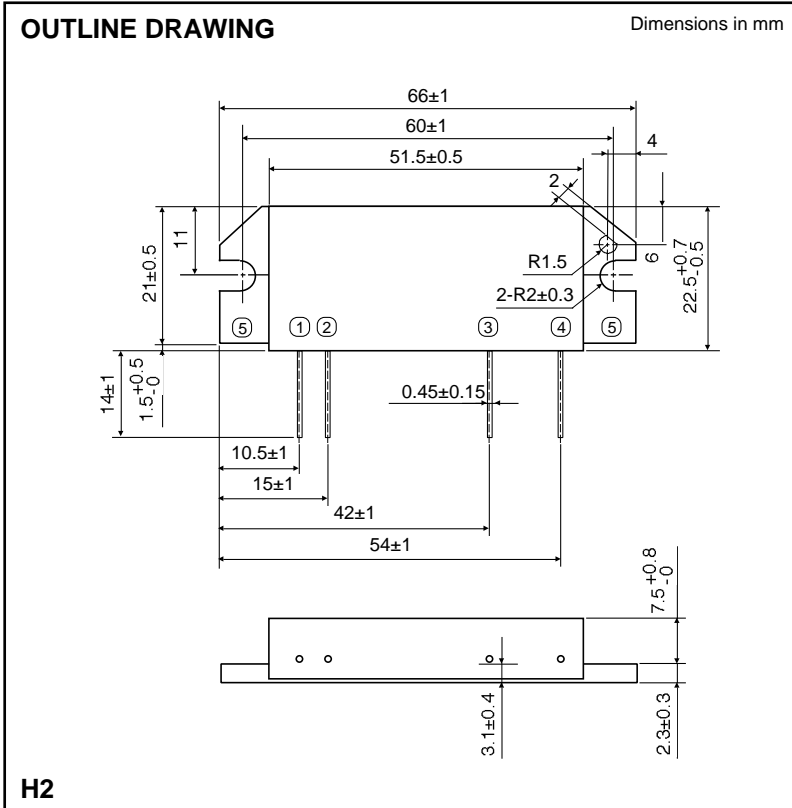


MITSUBISHI RF POWER MODULE
M68750

144-148MHz, 12.5V, 27W, FM MOBILE RADIO



PIN:
 ① Pin : RF INPUT
 ② Vcc1: 1st. DC SUPPLY
 ③ Vcc2: 2nd. DC SUPPLY
 ④ PO : RF OUTPUT
 ⑤ 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	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 parameters are guaranteed independently.

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

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		144	148	MHz
P _O	Output power	Vcc1=Vcc2=12.5V, P _{in} =200mW ZG=ZL=50	27		W
η	Total efficiency		50		%
2f _o	2nd. harmonic			-25	dBc
3f _o	3rd. harmonic			-30	dBc
in	Input VSWR			2.8	-
-	Load VSWR tolerance	Vcc1=Vcc2=15.2V P _O =30W (P _{in} :controlled), ZG=50 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

