

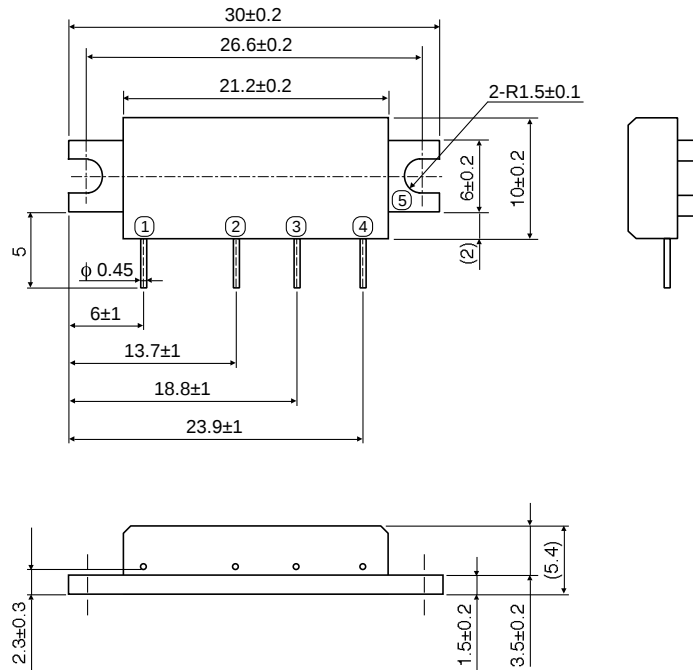
MITSUBISHI RF POWER MODULE

M68710TL

SILICON MOS FET POWER AMPLIFIER, 330-360MHz, 2W, FM PORTABLE RADIO

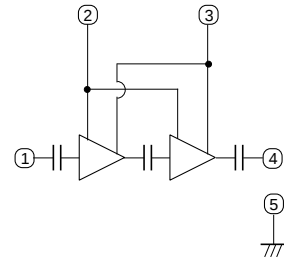
OUTLINE DRAWING

Dimensions in mm



H46

BLOCK DIAGRAM



PIN:

- ①Pin : RF INPUT
- ②VGG : GATE BIAS SUPPLY
- ③VDD : DRAIN BIAS SUPPLY
- ④Po : RF OUTPUT
- ⑤GND: FIN

ABSOLUTE MAXIMUM RATINGS (Tc=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
VDD	Supply voltage	VGG≤3.5V, ZG=ZL=50W	9	V
VGG	Gate bias voltage		4	V
Pin	Input power	f=330-360MHz, ZG=ZL=50W	30	mW
Po	Output power	f=330-360MHz, VDD≤9V, ZG=ZL=50W	3	W
Tc (OP)	Operation case temperature	f=330-360MHz, VDD≤9V, ZG=ZL=50W	-30 to +110	°C
Tstg	Storage temperature		-40 to +110	°C

Note. Above parameters are guaranteed independently.

ELECTRICAL CHARACTERISTICS (Tc=25°C, ZG=ZL=50W unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		330	360	MHz
Po	Output power	VDD=6V, VGG=3.5V, Pin=20mW	2		W
hT	Total efficiency		40		%
2fo	2nd. harmonic			-25	dBc
r in	Input VSWR			4	-
-	Stability	ZG=50W, VDD=4-8V, Load VSWR<4:1	No parasitic oscillation		-
-	Load VSWR tolerance	VDD=9V, Pin=20mW, Po=2W (VGG adjust), ZL=20:1	No degradation or destroy		-

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