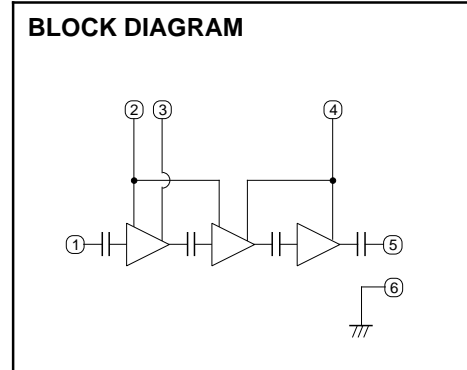
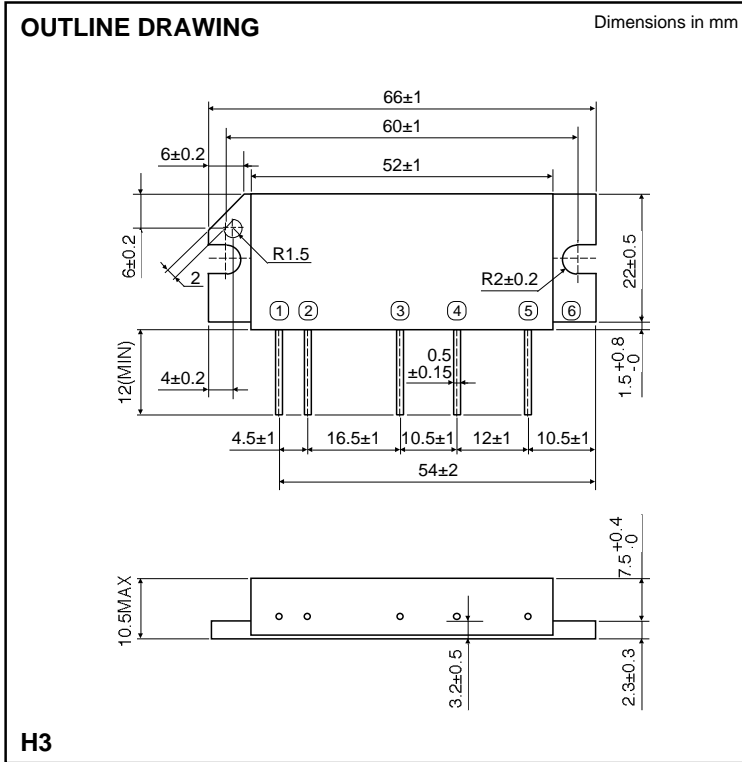


MITSUBISHI RF POWER MODULE
M67760LC

806-870MHz, 12.5V, 20W, FM MOBILE RADIO



- PIN:
- ① Pin : RF INPUT
 - ② VBB : BASE BIAS SUPPLY
 - ③ VCC1: 1st. DC SUPPLY
 - ④ VCC2: 2nd. DC SUPPLY
 - ⑤ Po : RF OUTPUT
 - ⑥ GND: FIN

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

Symbol	Parameter	Conditions	Ratings	Unit
VBB	Base bias		9.5	V
VCC1	Supply voltage	VBB=9V	14	V
VCC2	Supply voltage	ZG=ZL=50 , VBB=9V	16.5	V
Icc	Total current	ZG=ZL=50 , VCC1 12.5V	8.5	A
Pin (max)	Input power	f=806-870MHz, ZG=ZL=50	0.8	W
PO (max)	Output power	ZG=ZL=50	25	W
Tc (OP)	Operation case temperature	ZG=ZL=50	-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		806	870	MHz
PO	Output power	VBB=9V, VCC1=VCC2=12.5V, Pin=0.4W, ZG=ZL=50	20		W
η	Total efficiency	VBB=9V, VCC1=VCC2=12.5V, ZG=ZL=50 , PO=20W (Pin:controlled)	25		%
2fo	2nd. harmonic			-30	dBc
in	Input VSWR			3	-
-	Load VSWR tolerance	VBB=9V, VCC1=12.5V, VCC2=15.5V, PO=20W (Pin:controlled), ZG=50 , Load VSWR=20:1 (All phase)	No degradation or destroy		-
-	Stability	VBB=9V, f=806-825, 851-870MHz, VCC1=10 to 12.5V, VCC2=10 to 15.5V (VCC1 VCC2), PO=0 to 20W (Pin:controlled less than 0.4W), ZG=50 , Load VSWR 3:1 (All phase)	No oscillation more than -60dBc		-

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

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TYPICAL PERFORMANCE DATA

