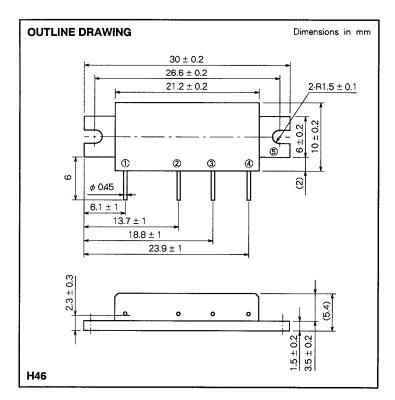
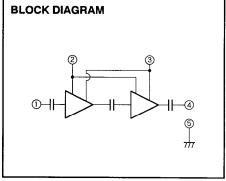
MITSUBISHI RF POWER MODULE

M67798LA

144-148MHz, 9.6V, 8W FM PORTABLE RADIO





PIN:

①Pin : RF INPUT ②VGG : GATE BIAS SUPPLY 3 VDD : DRAIN BIAS SUPPLY

④Po : RF OUTPUT
⑤GND : FIN

ABSOLUTE MAXIMUM RATINGS (Tc = $25 \, ^{\circ}$ C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit V
VDD	Supply voltage	$V_{GG} \leq 3.5V$, $Z_{G} = Z_{L} = 50\Omega$	16	
Vgg	Gate bias voltage		4	V
Pin	Input power	$f = 144$ to $148MHz$, $Z_G = Z_L = 50\Omega$	30	mW
Po	Output power	$f = 144$ to $148MHz$, $Z_G = Z_L = 50\Omega$	10	W
Tc(op)	Operation case temperature	$f = 144$ to $148MHz$, $Z_G = Z_L = 50\Omega$	- 30 to 100	₩
T _{stg}	Storage temperature		- 40 to 110	

Note: Above parameters are guaranteed independently.

ELECTRICAL CHARACTERISTICS (Tc = $25 \, ^{\circ}$ C, ZG = ZL = $50 \, ^{\circ}$ C, unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		11.3
			Min	Max	Unit
f	Frequency range		144	148	MHz
Po	Output power	V _{DD} = 9.6V V _{GG} = 3.5V P _{in} = 20mW	8		W
ηт	Total efficiency		53	_	%
2fo	2nd. harmonic		_	- 20	dBc
3fo	3rd. harmonic			- 30	dBc
ho in	Input VSWR		_	3	_
_	Stability	$Z_G = 50\Omega$, $V_{DD} = 4.8$ to 13.2V, Load VSWR < 4:1	No parasitic oscillation		_
_	Load VSWR tolerance	V _{DD} = 13.2V, P _{in} = 20mW, P ₀ = 8W(V _{GG} Adjust), Z _L = 20 : 1	No degradation or destroy		_

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

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TYPICAL PERFORMANCE DATA

