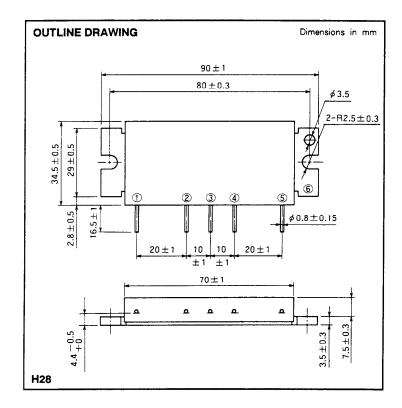
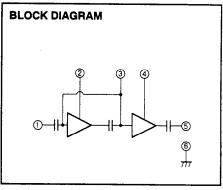
MITSUBISHI RF POWER MODULE

M67727

144-148MHz, 12.5V, 60W, SSB MOBILE RADIO





PIN:

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

ABSOLUTE MAXIMUM RATINGS (Tc = 25 ℃ unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit	
Vcc	Supply voltage		16	V	
Vвв	Base bias		10	V	
Icc	Total current		24	Α	
Pin(max)	Input power	$Z_G = Z_L = 50 \Omega$, $V_{CC1} \le 12.5V$	0.8	W	
Po(max)	Output power	$Z_G = Z_L = 50 \Omega$	78		
Tc(op)	Operation case temperature		- 30 to 110	ొ	
Tstg	Storage temperature		- 40 to 110	r	

Note. Above parameters are guaranteed independently.

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

Symbol	Parameter	Test conditions	Limits		11-7
			Min	Max	Unit
f	Frequency range		144	148	MHz
Po	Output power	Pin = 0.5W	60		W
ητ	Total efficiency	V _{BB} = 9V V _{CC} = 12.5V Z _G = Z _L = 50 Ω	50		%
2fo	2nd. harmonic			- 30	dBc
3fo	3rd. harmonic			- 35	dBc
ρ in	Input VSWR			2.8	_
_	Load VSWR tolerance	$V_{CC} = 15.2V$, $V_{BB} = 9V$ $P_{O} = 55W$ (P_{in} : controlled) Load VSWR=8.8:1 (AII phase), 2sec. $Z_{G} = 50$ Ω	No degradation or destroy		_

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

