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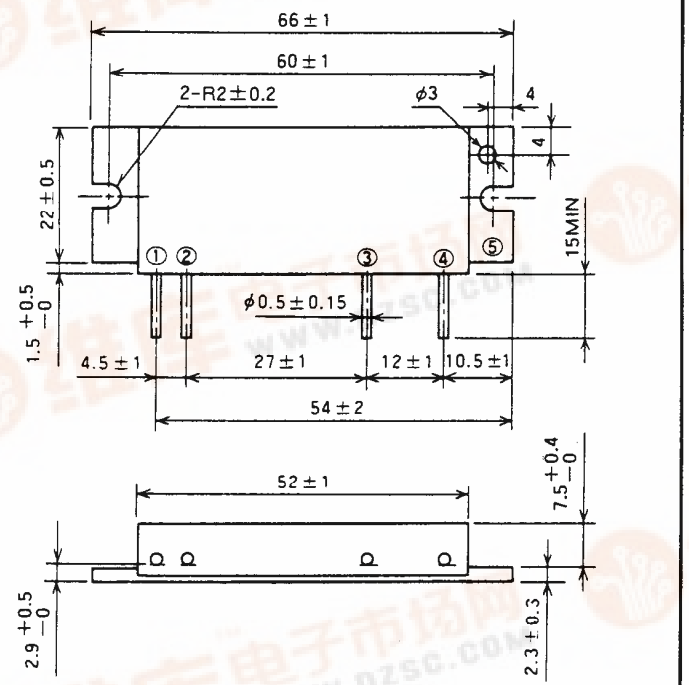
MITSUBISHI RF POWER MODULE

M57774S

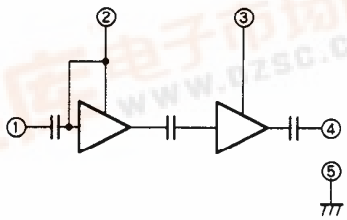
185-200MHz, 12.5V, 30W, FM MOBILE RADIO

OUTLINE DRAWING Dimensions in mm



H2

BLOCK DIAGRAM



PIN :
①Pin : RF INPUT
②Vcc1 : 1st. DC SUPPLY
③Vcc2 : 2nd. DC SUPPLY
④Po : RF OUTPUT
⑤GND : FIN

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

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage		17	V
Icc	Total current		7	A
Pin(max)	Input power	Vcc1 ≦ 12.5V, ZG = ZL = 50 Ω	600	mW
Po(max)	Output power	ZG = ZL = 50 Ω	40	W
Tc(OP)	Operation case temperature		− 30 to 110	℃
Tstg	Storage temperature		− 40 to 110	℃

Note. Above parameters are guaranteed independently.

ELECTRICAL CHARACTERISTICS (Tc = 25℃ unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	Vcc1 = Vcc2 = 12.5V Pin = 200mW ZG = ZL = 50 Ω	185	200	MHz
Po	Output power		30		W
ηT	Total efficiency		43		%
2fo	2nd. harmonic			− 25	dBc
3fo	3rd. harmonic			− 30	dBc
ρin	Input VSWR			2.8	−
−	Load VSWR tolerance	Vcc1 = Vcc2 = 15.2V Po = 30W (Pin : controlled) Load VSWR≧20:1(All phase) ZG = 50Ω	No degradation or destroy		−

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

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