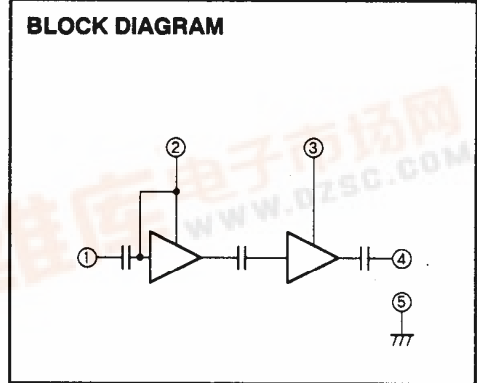
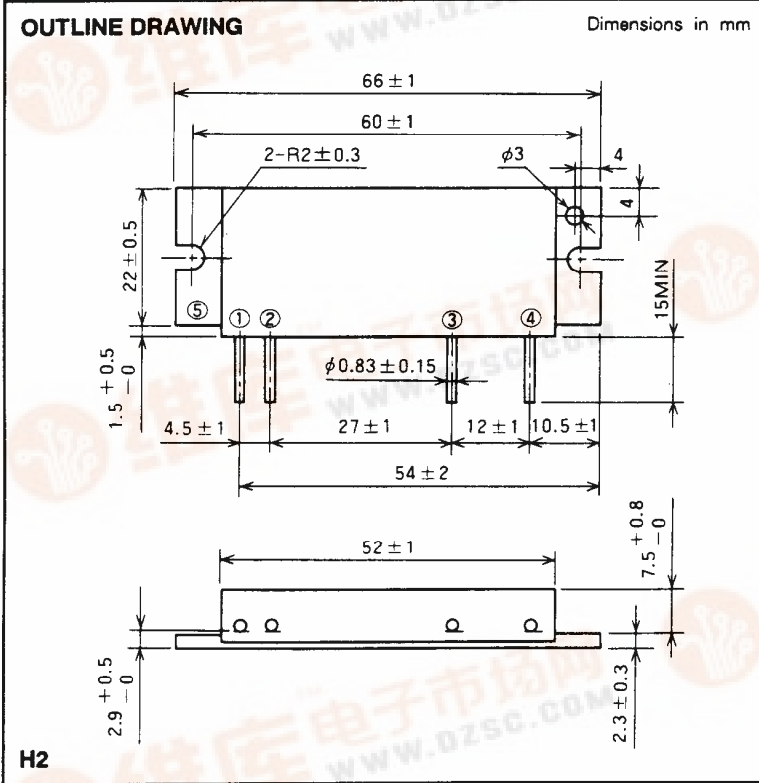


M67781H

150-175MHz, 12.5V, 40W, FM MOBILE RADIO



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

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

Symbol	Parameter	Conditions	Ratings	Unit
Vcc1	Supply voltage		16	V
Vcc2		17	V	
Icc	Total current		12	A
Pin(max)	Input power	ZG = ZL = 50 Ω, Vcc1 ≤ 12.5V	0.6	W
Po(max)	Output power	ZG = ZL = 50 Ω	50	W
Tc(OP)	Operation case temperature		- 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		150	175	MHz	
Po	Output power	Pin = 0.3W Vcc = 12.5V ZG = ZL = 50 Ω	40		W	
ηT	Total efficiency		40		%	
2fo	2nd. harmonic			- 30		dBc
3fo	3rd. harmonic			- 30		dBc
ρin	Input VSWR				3.0	-
-	Load VSWR tolerance	Vcc = 15.2V, Po = 40W (Pin : controlled) Load VSWR = 8.8:1 (All phase), 5sec. ZG = 50 Ω	No degradation or destroy		-	

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

