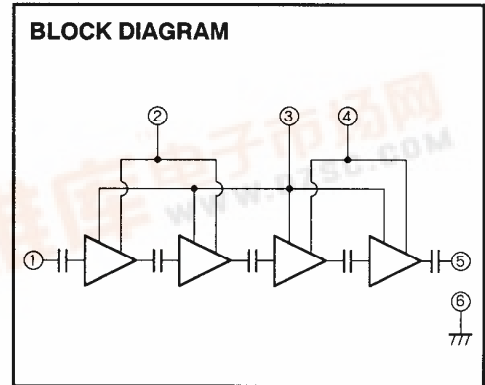
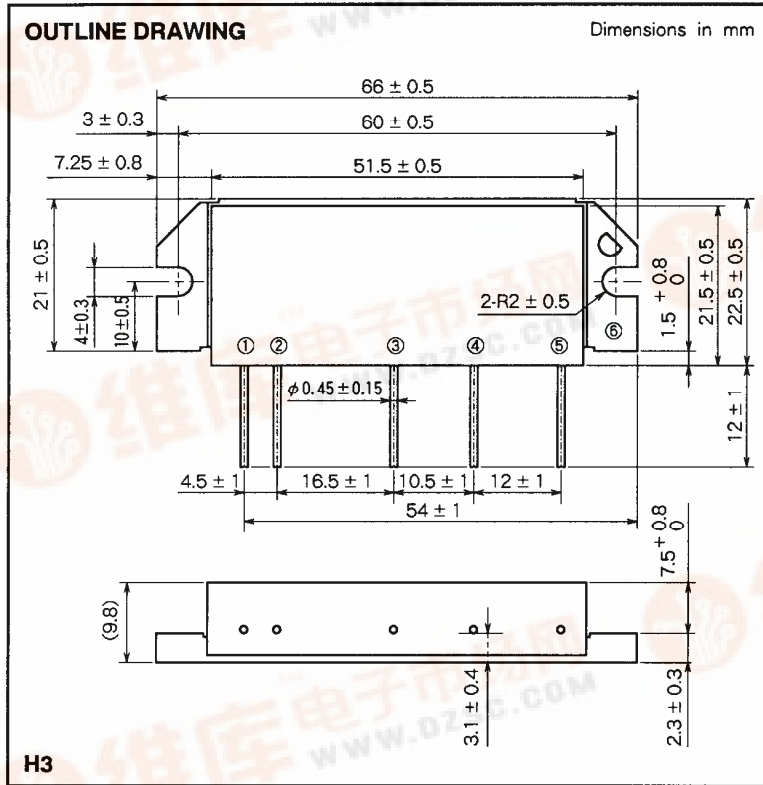


# M68719

1240-1300MHz, 12.5V, 16W, FM 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 (T<sub>c</sub> = 25 °C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
V <sub>CC1, 2</sub>	Supply voltage		17	V
V <sub>BB</sub>	Base bias		8.5	V
I <sub>CC</sub>	Total current		8	A
P <sub>in(max)</sub>	Input power	V <sub>CC1</sub> = 12.5V, V <sub>BB</sub> = 8V, Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	0.16	W
P <sub>O(max)</sub>	Output power	Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	20	W
T <sub>C(OP)</sub>	Operation case temperature		- 30 to 110	°C
T <sub>stg</sub>	Storage temperature		- 40 to 110	°C

Note. Above parameters are guaranteed independently.

### ELECTRICAL CHARACTERISTICS (T<sub>c</sub> = 25 °C unless otherwise noted)

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range	V <sub>CC1</sub> = V <sub>CC2</sub> = 12.5V V <sub>BB</sub> = 8V P <sub>in</sub> = 0.1W Z <sub>G</sub> = Z <sub>L</sub> = 50 Ω	1.24	1.3	GHz
P <sub>O</sub>	Output power		16		W
η <sub>T</sub>	Total efficiency		28		%
2f <sub>o</sub>	2nd. harmonic		- 45		dBc
ρ <sub>in</sub>	Input VSWR		2.5		-
-	Load VSWR tolerance	V <sub>BB</sub> = 8V, V <sub>CC2</sub> = 15.2V, P <sub>in</sub> = 0.1W P <sub>O</sub> = 16W (V <sub>CC1</sub> : controlled), Load VSWR=16:1(All phase) Z <sub>G</sub> = 50Ω	No degradation or destroy		-

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