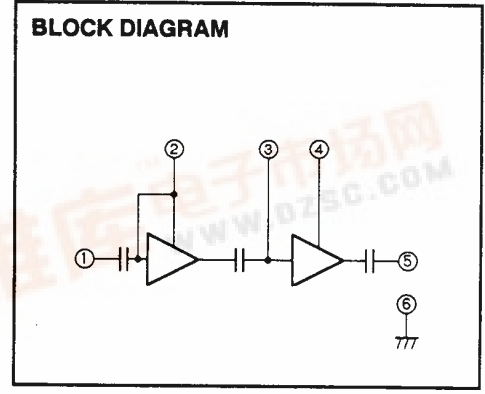
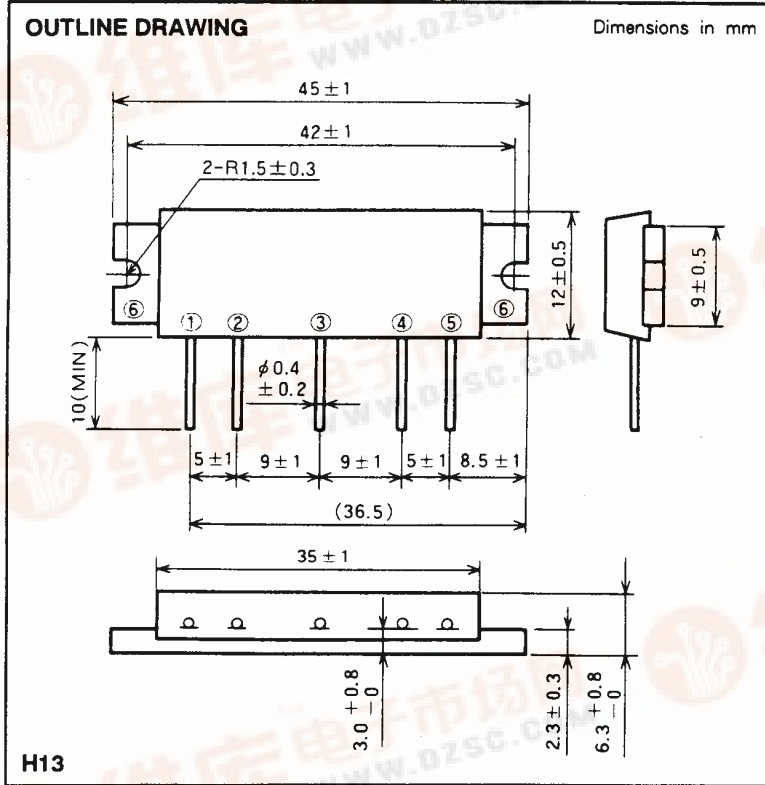


M67743H

77-88MHz, 12.5V, 7W, FM PORTABLE 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°C unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
Vcc	Supply voltage		15	V
VBB	Base bias		5.5	V
Icc	Total current		4	A
Pin(max)	Input power	ZG = ZL = 50 Ω	40	mW
Po(max)	Output power	ZG = ZL = 50 Ω	10	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		77	88	MHz
Po	Output power	Pin = 30mW	7		W
ηT	Total efficiency	VBB = 5V	38		%
2fo	2nd. harmonic	Vcc = 12.5V		- 18	dBc
3fo	3rd. harmonic	ZG = ZL = 50 Ω		- 25	dBc
ρin	Input VSWR			4.0	-
-	Load VSWR tolerance	Vcc = 13.2V, VBB = 5V Po = 7W (Pin : controlled) Load VSWR=20:1 (All phase), 2sec. ZG = 50 Ω	No degradation or destroy		-

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

