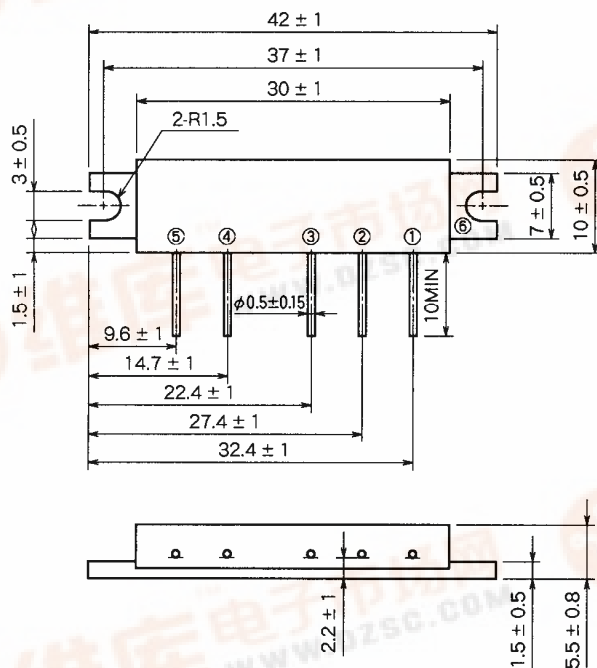
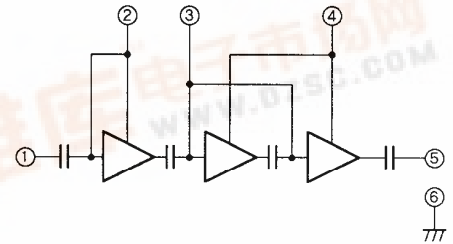


M67749ULR**360-390MHz, 12.5V, 7W, FM PORTABLE RADIO****OUTLINE DRAWING**

Dimensions in mm

**H27R****BLOCK DIAGRAM**

PIN :

- ①Pin : RF INPUT
- ②Vcc1 : 1st. DC SUPPLY
- ③VBB : BASE BIAS SUPPLY
- ④Vcc2 : 2nd. DC SUPPLY
- ⑤Po : RF OUTPUT
- ⑥GND : FIN

ABSOLUTE MAXIMUM RATINGS ($T_c = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
V _{CC}	Supply voltage	$V_{BB} \leq 5V$	16	V
V _{BB}	Base bias	$V_{CC} \leq 12.5V$	6	V
I _{CC}	Total current		4	A
P _{in(max)}	Input power	$Z_G = Z_L = 50 \Omega$, $V_{CC1} \leq 12.5V$	40	mW
P _{o(max)}	Output power	$Z_G = Z_L = 50 \Omega$	10	W
T _{c(OP)}	Operation case temperature		- 30 to 110	°C
T _{stg}	Storage temperature		- 40 to 110	°C

Note. Above parameters are guaranteed independently.

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

Symbol	Parameter	Test conditions	Limits		Unit
			Min	Max	
f	Frequency range		360	390	MHz
P _o	Output power	$P_{in} = 20mW$	7		W
η_T	Total efficiency	$V_{BB} = 5V$	38		%
2f _o	2nd. harmonic	$V_{CC} = 12.5V$		- 25	dBc
3f _o	3rd. harmonic	$Z_G = Z_L = 50 \Omega$		- 30	dBc
ρ_{in}	Input VSWR			2.5	-
-	Load VSWR tolerance	$V_{CC2} = 13.2V$, $V_{BB} = 5V$, $P_{in} = 20mW$ $P_o = 7W$ (V_{CC1} : controlled) Load VSWR=20:1(All phase), 2sec. $Z_G = 50 \Omega$	No degradation or destroy		-

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