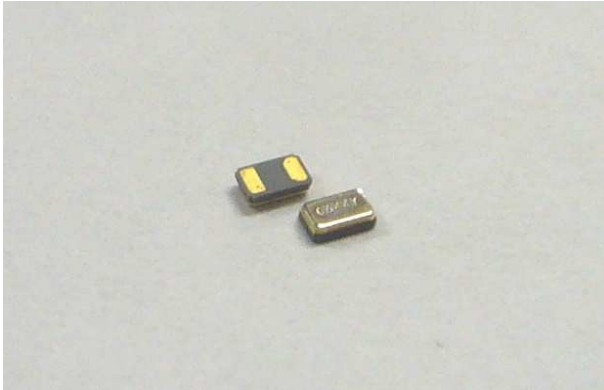


TUNING FORK CRYSTAL UNIT (SMD · Ceramic Package)

RoHS compliant / Pb free

SW1610

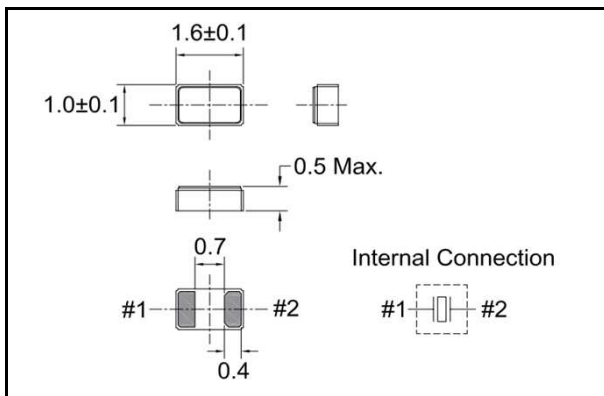
5,000pcs/reel



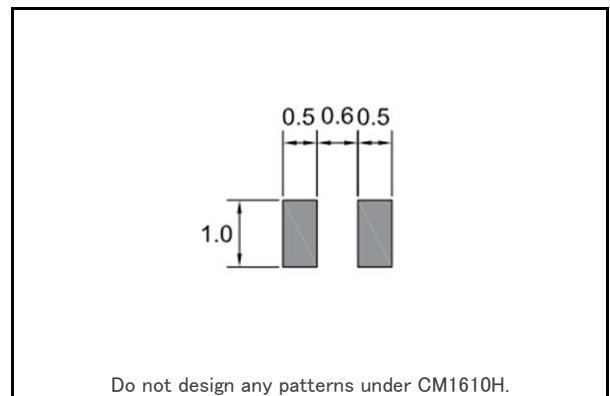
FEATURES

- Ultra-lightweight microminiature TF Crystal units SMD type
- Frequency range : 32.768kHz
- External dimensions (mm)
L : 1.6 x W : 1.0 x H : 0.5
- Applications
Small communication devices

DIMENSION [mm]



SOLDER PAD LAYOUT [mm]



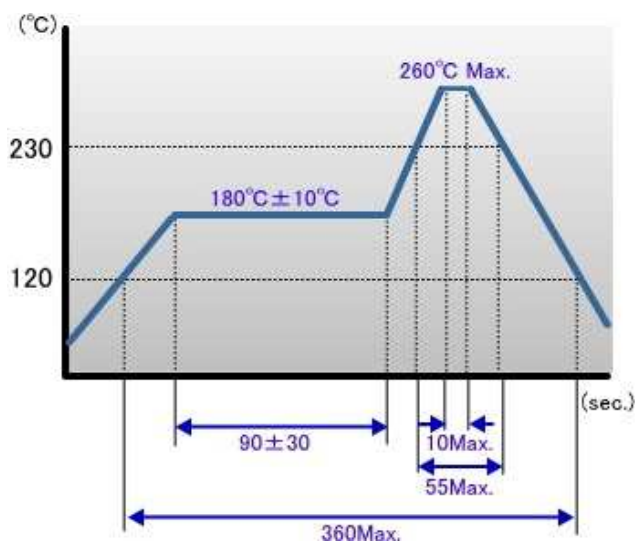
STANDARD SPECIFICATIONS

Item	Model	SW1610	Conditions
Nominal Frequency	f_0	32.768kHz	
Frequency Tolerance	$\Delta f/f_0$	$\pm 20\text{ppm}$	at 25°C
Load capacitance	C_L	6.0pF / 7.0pF / 9.0pF / 12.5pF	Please specify your requirement
Operating Temperature Range	T_{OPR}	-40°C ~ +85°C	
Storage Temperature Range	T_{STR}	-55°C ~ +125°C	
Turnover Temperature	T_M	25°C $\pm$ 5°C	
Temperature Coefficient	β	(-0.036 $\pm$ 10%) ppm/°C ²	
Motional (series) resistance	R_1	90K Ω Max.	at 25°C
Level of drive	D_L	0.5 μ W Max.	
Aging (first year)	$\Delta f/f_0$	$\pm 3\text{ppm}$ Max.	25°C $\pm$ 3°C
Shunt capacitance	C_0	1.2pF Typ.	

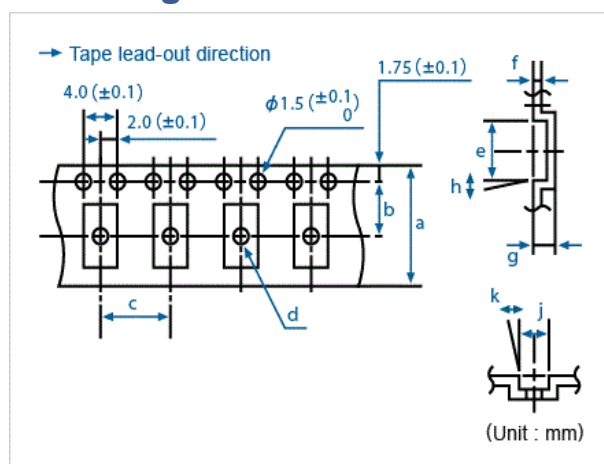
■ Part Marking [standard]



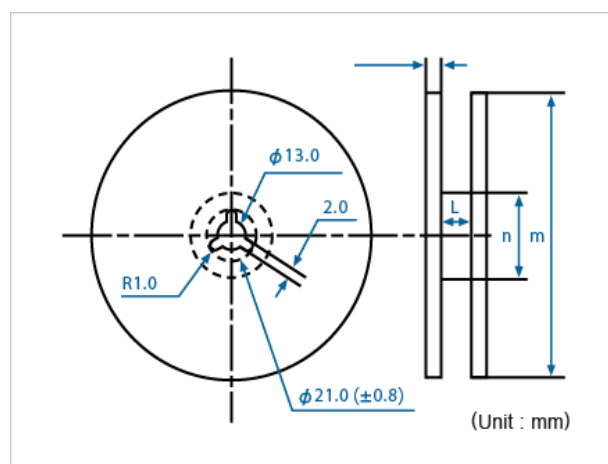
■ Reflow profile



■ Packing



Conforming to JIS C 0806 TB1208NEIAJ and RC-1009B TE1208N



Conforming to JIS C 0806 R12R and EIAJ RC-1009B R15

Q'ty/reel	a	b	c	d(ϕ)	e	f	g	h	j	k	l	m(ϕ)	n(ϕ)
5,000	8.0	3.5	4.0	0.5	1.8	0.23	0.6	5°	1.2	5°	9.0	180	60

Product specifications are subject to change without notice.