

# QUARTZ CRYSTAL RESONATOR

## CS26 Series SMD TUNING FORK CRYSTAL

### Application

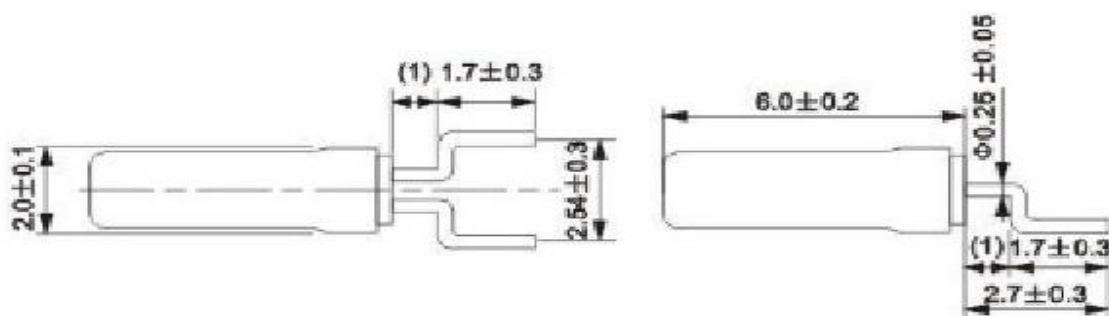
- Microprocessor Systems
- Consumer Electronics



### Specifications

Holder Type	CS26 Type
Frequency Range	32.768Khz
Load Capacitance	12.5pF
Drive Level	1.0 $\mu$ W Max
Frequency Tolerance	$\pm 20$ ppm
Series Resistance	40K $\Omega$ Max.
Turnover Temperature	25 $\pm 5^{\circ}$ C
Temperature Coefficient	(-0.035 $\pm 0.01$ )ppm/ $^{\circ}$ C <sup>2</sup>
Operating Temperature Range	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Storage Temperature Range	-55 $^{\circ}$ C to +125 $^{\circ}$ C
Motional Capacitance	0.0028pF Typical
Shunt Capacitance	1.45pF Typical
Aging (First year)	$\pm 5$ ppm/ Max.
Quality Factor	50000 Typical
Insulation Resistance	500 M $\Omega$ Mini.

### Dimension (mm)



### How to order

CS26	32.768K	3	12	R
Series	Frequency	Operating Temp.	Load capacitance	Package
CS26	32.768Khz	1= -10 $^{\circ}$ C~+60 $^{\circ}$ C 2= -20 $^{\circ}$ C~+70 $^{\circ}$ C 3= -40 $^{\circ}$ C~+85 $^{\circ}$ C	12=12.5pF	R = Tape Reel SPQ: 2K/Reel

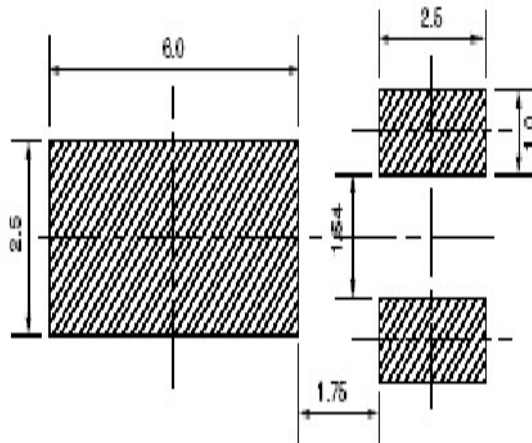
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Remark: Specifications subject to change without prior notice. Please confirm with our sales engineer.

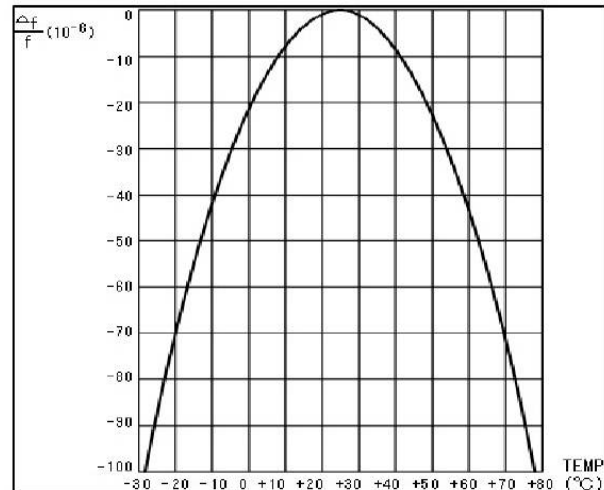
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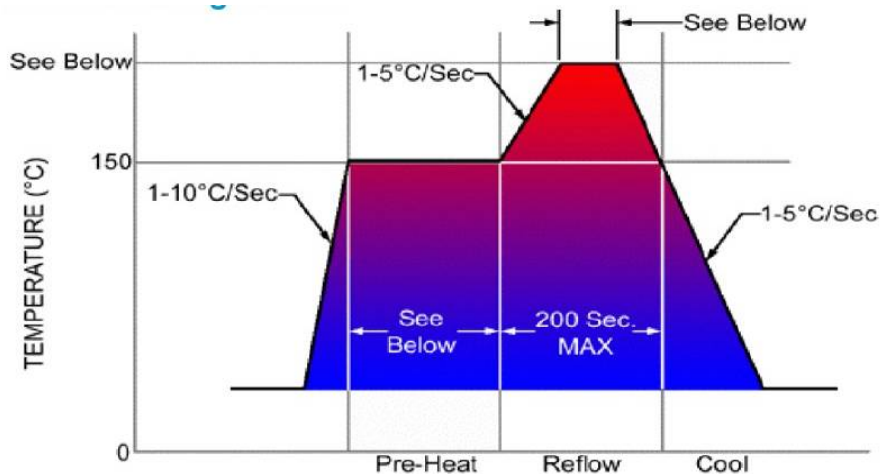
### Solder Pad Layout (mm)



### Frequency VS. Temperature cure



### Reflow Condition



### SOLDERING METHOD

Model	Pre-heating time	Reflow Temperature	Reflow time
SMD Tuning fork (no lead free for solder, but ROHS compliant)	30-60 Seconds	260°C Max	10 Seconds Max

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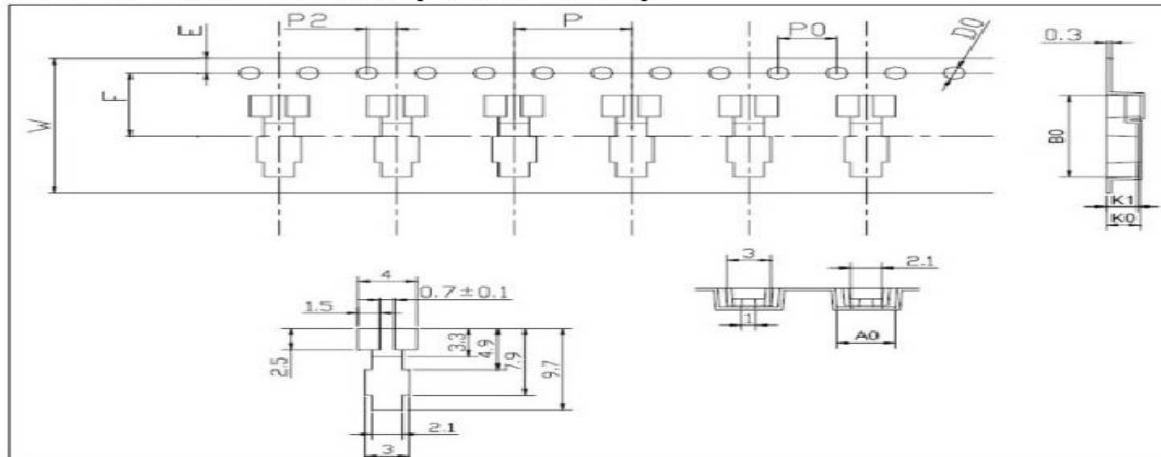
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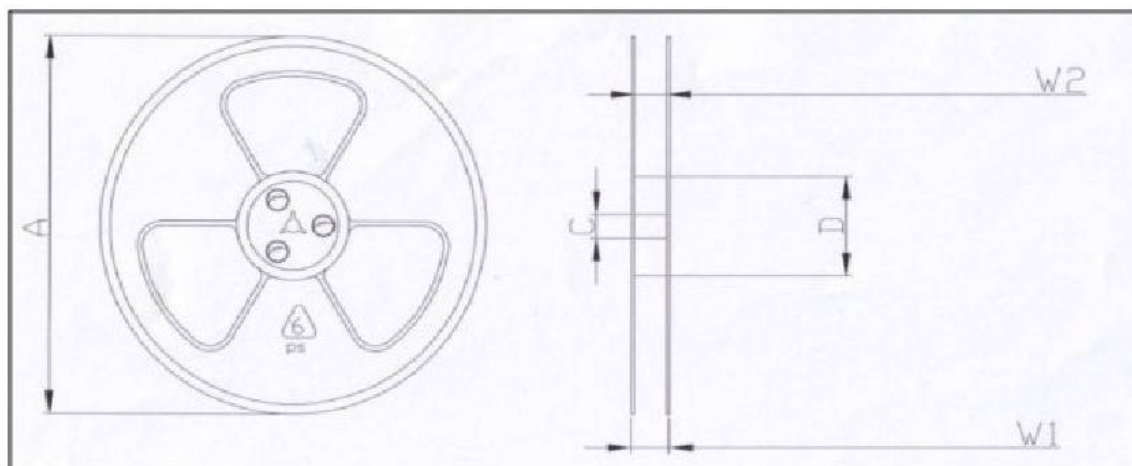
### Packing

#### TAPE SPECIFICATION ( UNIT : mm )



W	A0	B0	E	F	P	P0	P2	D0	K0	K1
16 <sup>+0.30</sup> <sub>-0.30</sub>	4.0 <sup>+0.10</sup> <sub>-0.10</sub>	9.7 <sup>+0.10</sup> <sub>-0.10</sub>	1.75 <sup>+0.10</sup> <sub>-0.10</sub>	7.5 <sup>+0.10</sup> <sub>-0.10</sub>	8 <sup>+0.10</sup> <sub>-0.10</sub>	4 <sup>+0.10</sup> <sub>-0.10</sub>	2 <sup>+0.15</sup> <sub>-0.15</sub>	1.5 <sup>+0.15</sup> <sub>-0.00</sub>	2.3 <sup>+0.10</sup> <sub>-0.10</sub>	2.1 <sup>+0.10</sup> <sub>-0.10</sub>

### Reel Specification



規格	A±0.5	C±0.2	D±0.3	W1±0.2	W2 <sup>+0.4</sup> <sub>+0.2</sub>
330×100×16	330	25	100	20	16

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### Packaging Method

TAPE AND REEL AS SHOWN IN ABOVE DIMENSION

- INSERT 3,000 PCS OF TAPE AND REEL COVERED WITH SHOCK ABSORBANT PAD INTO THE INNER BOX (INNER BOX SHOULD HAVE DESCRIPTION OF THE PART CONTAINED) AS SHOWN IN PICTURE1.
- INNER-BOX CAN ACCOMODATE UPTO 3,000PCS. [PICTURE2]
- INSERT SHOCK-ABSORBANT PAD ON ALL SIDES(INCLUDING TOP), AND THEN INSERT UPTO 5 INNER BOXES INTO THE OUTER BOX.[PICTURE3]
- ON THE INNER-BOX COVER, LABEL CONTENTS OF THE BOX (FREQUENCY, LOAD CAPACITANCE, AND QUANTITY).
- TO PREVENT INNER-BOX COVER OPENING DUE TO SHOCK, FASTEN THE COVER WITH A CLEAR TAPE AS SHOWN IN PICTURE4.



PICTURE1



PICTURE2



PICTURE3



PICTURE4

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