

Features

- > Frequency range : 32.768 kHz
- > SMD : Ceramic package
- > External dimensions (mm)
L : 3.2 x W : 1.5 x H : 0.75
- > RoHS compliant & Pb free

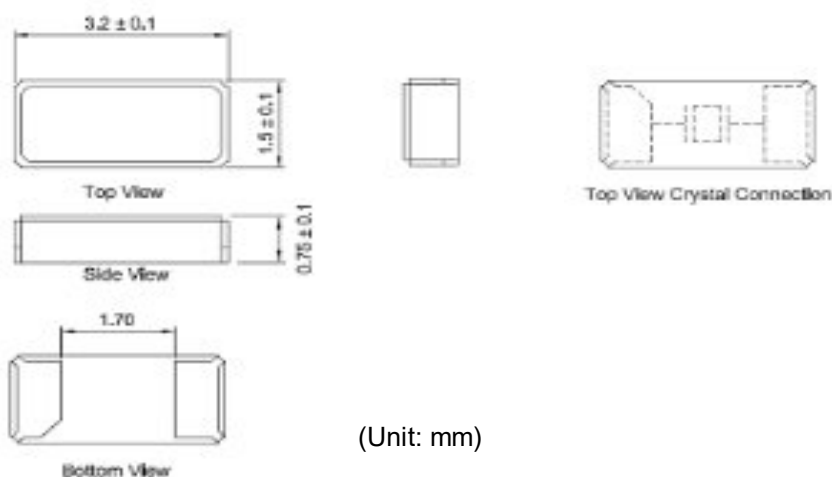
Applications

- > Small mobile devices
- > Communication devices
- > Consumer products
- > Commercial & industrial applications

Electrical Characteristics

Item	Symbol	9HT10W	Conditions
Nominal Frequency	f_0	32.768 kHz	
Frequency Tolerance	$\Delta f/f_0$	$\pm 10\text{ppm}, \pm 20\text{ppm}$	at 25°C
Load Capacitance	C_L	6pF, 7pF, 9pF, 12.5pF	
Operating Temperature Range	T_{OTR}	-40°C ~ +85°C	
		-40°C ~ +125°C	
Storage Temperature Range	T_{STR}	-55°C ~ +125°C	
Turnover Temperature	T_M	25°C $\pm$ 5°C	
Temperature Coefficient	β	-0.04 ppm/°C ² Max.	
Motional Capacitance	C_1	3.1 fF Typ.	
Motional Resistance (ESR)	R_1	70 kΩ Max.	at 25°C
Drive Level	D_L	0.1μW Typ. / 1.0μW Max.	
Aging	$\Delta f/f_0$	± 3 ppm Max.	at 25°C $\pm$ 3°C, first year
Shunt Capacitance	C_0	1.0 pF Typ.	

Dimensions



9HT10W - 32.768K D F - T

Technical drawing of a 10-pin barrier tape. The drawing includes a top view, a side view (A-A SECTION), a detail view of a pin (B-B SECTION), and a circular view of the tape's cross-section. Dimensions are provided in millimeters (mm).

Top View Dimensions:

- Note: 2: P2
- Note: 1: P1
- Note: 2: L
- Note: 2: W
- Note: 2: D1
- Note: 2: D2
- Note: 2: D3
- Note: 2: D4
- Note: 2: D5
- Note: 2: D6
- Note: 2: D7
- Note: 2: D8
- Note: 2: D9
- Note: 2: D10
- Note: 2: D11
- Note: 2: D12
- Note: 2: D13
- Note: 2: D14
- Note: 2: D15
- Note: 2: D16
- Note: 2: D17
- Note: 2: D18
- Note: 2: D19
- Note: 2: D20
- Note: 2: D21
- Note: 2: D22
- Note: 2: D23
- Note: 2: D24
- Note: 2: D25
- Note: 2: D26
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- Note: 2: D34
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- Note: 2: D36
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- Note: 2: D39
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- Note: 2: D62
- Note: 2: D63
- Note: 2: D64
- Note: 2: D65
- Note: 2: D66
- Note: 2: D67
- Note: 2: D68
- Note: 2: D69
- Note: 2: D70
- Note: 2: D71
- Note: 2: D72
- Note: 2: D73
- Note: 2: D74
- Note: 2: D75
- Note: 2: D76
- Note: 2: D77
- Note: 2: D78
- Note: 2: D79
- Note: 2: D80
- Note: 2: D81
- Note: 2: D82
- Note: 2: D83
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- Note: 2: D89
- Note: 2: D90
- Note: 2: D91
- Note: 2: D92
- Note: 2: D93
- Note: 2: D94
- Note: 2: D95
- Note: 2: D96
- Note: 2: D97
- Note: 2: D98
- Note: 2: D99
- Note: 2: D100

Side View (A-A SECTION) Dimensions:

- Note: 2: A
- Note: 2: B
- Note: 2: C
- Note: 2: D
- Note: 2: E
- Note: 2: F
- Note: 2: G
- Note: 2: H
- Note: 2: I
- Note: 2: J
- Note: 2: K
- Note: 2: L
- Note: 2: M
- Note: 2: N
- Note: 2: O
- Note: 2: P
- Note: 2: Q
- Note: 2: R
- Note: 2: S
- Note: 2: T
- Note: 2: U
- Note: 2: V
- Note: 2: W
- Note: 2: X
- Note: 2: Y
- Note: 2: Z
- Note: 2: AA
- Note: 2: AB
- Note: 2: AC
- Note: 2: AD
- Note: 2: AE
- Note: 2: AF
- Note: 2: AG
- Note: 2: AH
- Note: 2: AI
- Note: 2: AJ
- Note: 2: AK
- Note: 2: AL
- Note: 2: AM
- Note: 2: AN
- Note: 2: AO
- Note: 2: AP
- Note: 2: AQ
- Note: 2: AR
- Note: 2: AS
- Note: 2: AT
- Note: 2: AU
- Note: 2: AV
- Note: 2: AW
- Note: 2: AX
- Note: 2: AY
- Note: 2: AZ
- Note: 2: BA
- Note: 2: BB
- Note: 2: BC
- Note: 2: BD
- Note: 2: BE
- Note: 2: BF
- Note: 2: BG
- Note: 2: BH
- Note: 2: BI
- Note: 2: BJ
- Note: 2: BK
- Note: 2: BL
- Note: 2: BM
- Note: 2: BN
- Note: 2: BO
- Note: 2: BP
- Note: 2: BQ
- Note: 2: BR
- Note: 2: BS
- Note: 2: BT
- Note: 2: BU
- Note: 2: BV
- Note: 2: BW
- Note: 2: BX
- Note: 2: BY
- Note: 2: BZ
- Note: 2: CA
- Note: 2: CB
- Note: 2: CC
- Note: 2: CD
- Note: 2: CE
- Note: 2: CF
- Note: 2: CG
- Note: 2: CH
- Note: 2: CI
- Note: 2: CJ
- Note: 2: CK
- Note: 2: CL
- Note: 2: CM
- Note: 2: CN
- Note: 2: CO
- Note: 2: CP
- Note: 2: CQ
- Note: 2: CR
- Note: 2: CS
- Note: 2: CT
- Note: 2: CU
- Note: 2: CV
- Note: 2: CW
- Note: 2: CX
- Note: 2: CY
- Note: 2: CZ
- Note: 2: DA
- Note: 2: DB
- Note: 2: DC
- Note: 2: DD
- Note: 2: DE
- Note: 2: DF
- Note: 2: DG
- Note: 2: DH
- Note: 2: DI
- Note: 2: DJ
- Note: 2: DK
- Note: 2: DL
- Note: 2: DM
- Note: 2: DN
- Note: 2: DO
- Note: 2: DP
- Note: 2: DQ
- Note: 2: DR
- Note: 2: DS
- Note: 2: DT
- Note: 2: DU
- Note: 2: DV
- Note: 2: DW
- Note: 2: DX
- Note: 2: DY
- Note: 2: DZ
- Note: 2: EA
- Note: 2: EB
- Note: 2: EC
- Note: 2: ED
- Note: 2: EE
- Note: 2: EF
- Note: 2: EG
- Note: 2: EH
- Note: 2: EI
- Note: 2: EJ
- Note: 2: EK
- Note: 2: EL
- Note: 2: EM
- Note: 2: EN
- Note: 2: EO
- Note: 2: EP
- Note: 2: EQ
- Note: 2: ER
- Note: 2: ES
- Note: 2: ET
- Note: 2: EU
- Note: 2: EV
- Note: 2: EW
- Note: 2: EX
- Note: 2: EY
- Note: 2: EZ
- Note: 2: FA
- Note: 2: FB
- Note: 2: FC
- Note: 2: FD
- Note: 2: FE
- Note: 2: FF
- Note: 2: FG
- Note: 2: FH
- Note: 2: FI
- Note: 2: FJ
- Note: 2: FK
- Note: 2: FL
- Note: 2: FM
- Note: 2: FN
- Note: 2: FO
- Note: 2: FP
- Note: 2: FQ
- Note: 2: FR
- Note: 2: FS
- Note: 2: FT
- Note: 2: FU
- Note: 2: FV
- Note: 2: FW
- Note: 2: FX
- Note: 2: FY
- Note: 2: FZ
- Note: 2: GA
- Note: 2: GB
- Note: 2: GC
- Note: 2: GD
- Note: 2: GE
- Note: 2: GF
- Note: 2: GG
- Note: 2: GH
- Note: 2: GI
- Note: 2: GJ
- Note: 2: GK
- Note: 2: GL
- Note: 2: GM
- Note: 2: GN
- Note: 2: GO
- Note: 2: GP
- Note: 2: GQ
- Note: 2: GR
- Note: 2: GS
- Note: 2: GT
- Note: 2: GU
- Note: 2: GV
- Note: 2: GW
- Note: 2: GX
- Note: 2: GY
- Note: 2: GZ
- Note: 2: HA
- Note: 2: HB
- Note: 2: HC
- Note: 2: HD
- Note: 2: HE
- Note: 2: HF
- Note: 2: HG
- Note: 2: HH
- Note: 2: HI
- Note: 2: HJ
- Note: 2: HK
- Note: 2: HL
- Note: 2: HM
- Note: 2: HN
- Note: 2: HO
- Note: 2: HP
- Note: 2: HQ
- Note: 2: HR
- Note: 2: HS
- Note: 2: HT
- Note: 2: HU
- Note: 2: HV
- Note: 2: HW
- Note: 2: HX
- Note: 2: HY
- Note: 2: HZ
- Note: 2: IA
- Note: 2: IB
- Note: 2: IC
- Note:

The graph illustrates the temperature profile of a metal specimen during a heat treatment cycle. The y-axis represents Temperature in degrees Celsius (°C), with major grid lines at 150, 180, 220, and 260. The x-axis represents Time in seconds (sec), with major grid lines at 120 and 60. The curve starts at 120°C, rises to 150°C in 120 sec, then to 260°C in 60 sec, remains at 260°C for 10 sec, and finally cools down.

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