

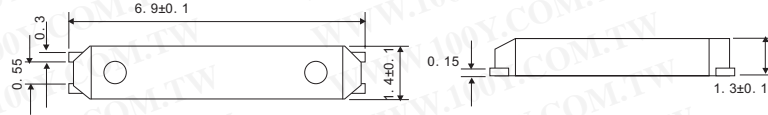
Timing Function IC

SMD Crystals



Features

- Plastic mold package incorporated tubular type quartz crystal.
- Suitable for automatic and high density surface mounting.
- Excellent shock and heat resistance.
- Multi dimension for choose.
- Reasonable cost.
- Contains high melting temperature type solder (Pb 85%) exempted by RoHS directive.

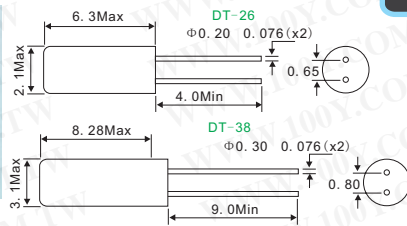


Detailed product specifications are available on: us.100y.com.tw

Item / Type	9HT2	9HT7
Nominal Frequency	32.768 KHz	
Frequency Tolerance (at 25 °C)	± 20 ppm	
Operating Temperature Range	-40 ~ +85 °C	
Shunt Capacitance (C0)	1 pF typical	0.8 pF typical
Motional Capacitance	2.1 fF typical	1.9 fF typical
Insulation Resistance	500 MΩ Min.	
Drive Level	1 μW Max.	
Load Capacitance	12.5 pF	
Peak Temperature (Frequency)	25 °C ± 5 °C	
Frequency-Temperature Coefficient	-4*10 ⁻⁸ / °C2 Max.	
Aging (at 25 °C)	± 3 ppm / year Max.	
Storage Temperature Range	-55 ~ +125 °C	

Part No.	Product No.	Manufacturer	Description	Frequency(MHz)	Load capacitance(pF)	Can Style	±ppm
49781	XTAL32.768K9H3812.5	TXC	SMD Quartz Crystal	32.768KHz	12.5 Pf	9HT7	± 20 ppm

Quartz Resonator



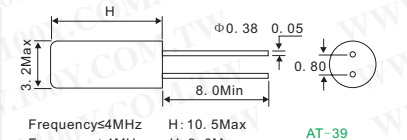
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Parameter	Symb	Condition	Min	Typ	Max	Units
Frequency range	Fo		30	32.768	100	Khz
Frequency Tolerance	ΔF / Fo	AT 25°C	±10	±20	±100	Ppm
Temperature Coefficient	K	REF TO 25°C			-0.042	ppm / (Δ°C) ²
Operating temperature range	T _{OPR}		-10		+60	°C
Storage temperature range	T _{STG}		-20		+70	°C
Shunt Capacitance	C ₀			0.85	2	pF
Motional capacitance	C ₁		1	2	4	fF
Load capacitance	CL		6	12.5	Series	pF
Insulation resistance	IR	100V _{DC}	500			MΩ
Drive level	DL				1	MW
Aging (first year)	F _a	AT25°C±3°C	-5.0		+5.0	ppm

FEATURES

- Miniature package
- Low Cost
- Khz frequency
- Tight tolerance

Part No.	Product No.	Manufacturer	Description	Frequency (KHz)	Load capacitance(Pf)	Can Style	Equivalent resistance Ω	±ppm
39431	DA-32.768B060B		Quartz Resonator	32.768KHz	6pF	2.1*6.3mm		±20PPM
2080	DA32.768B125B		Quartz Resonator	32.768KHz	12.5pF	DT-26 2*6mm	50K	±20PPM
40625	DB100B125B		Quartz Resonator	100KHz	12.5pF	DT-38 ψ3*8mm	35k	±20PPM
41652	DB32.00B125B		Tuning Fork Crystal Resonator	32KHz	12.5pF	3*8mm	35KΩ	±20PPM
7884	DB32.768B125B		Quartz Resonator	32.768KHz	12.5pF	3*8mm		±20ppm
32417	DT26-32.768KHz-12.5pF	KDS	Quartz Resonator	32.768KHz	12.5pF	ψ2.1*6.3mm	≦ 40KΩ	±20PPM

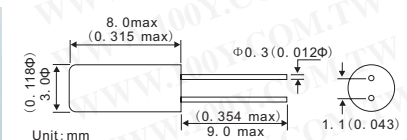


Parameter	Symb	Condition	Min	Typ	Max	Units
Frequency range	Fo		3.579545		70	Mhz
Frequency Tolerance	ΔF / Fo	AT 25°C	±20	±30	±50	ppm
Temperature Stability	TC	REF TO 25°C	±20	±30	±50	ppm
Operating temperature range	T _{OPR}		-10		+60	°C
Storage temperature range	T _{STG}		-40		+85	°C
Shunt Capacitance	C ₀				7	pF
Load capacitance	CL	Customer specified	10	16	Series	pF
Insulation resistance	IR	100V _{DC}	500			MΩ
Drive level	DL			100	500	μW
Aging (first year)	F _a	AT25°C	-5.0		+5.0	ppm

FEATURES

- Industry standard
- Low Cost
- Wide frequency range
- Small compact size

Part No.	Product No.	Description	Frequency (KHz)	Load capacitance(Pf)	Can Style	±ppm
41649	EAT-3.579545F20D33X	Quartz Resonator	3.579545MHz	20pF	3*10mm	±30PPM
11790	EAT-6.000F20D33X	Quartz Resonator	6.000MHZ	20pF	3*10mm	±30PPM
28736	EAT-9.6000F20D33X	High frequency miniature crystal unit	9.6000MHz	20pF	AT-39 3.2*10.5mm	±30ppm



- Micro tubular holder (cylindrical type) X-cut tuning fork crystals.
- Ideal for 1Hz timing frequency.
- Compact and high-shock.

Frequency:	32.768 kHz
Frequency Tolerance at 25°C:	±15 ppm; ±20 ppm (standard), ±30 ppm
Maximum Series Resistance:	35 k max.
Quality Factor (Q):	50,000 minimum
Motional Capacitance (C1):	0.0035 pf typical
Shunt Capacitance (Co):	1.60 pf typical
Capacitance Ratio (Co/C1):	460 typical
Load Capacitance (CL):	6 pF or 12.5pF
Drive Level:	1 μW max.
Operating Temperature Range:	-10°C to +60°C
Storage Temperature Range:	-30°C to +70°C
Shock:	3 ppm maximum 3 drops from a height of 75 cm onto hardwood
Vibration:	3 ppm maximum
Aging:	First year: 3 ppm maximum at 25°C

Part No.	Product No.	Manufacturer	Description	Frequency (KHz)	Load capacitance(Pf)	Can Style	Equivalent resistance Ω	±ppm
46710	T38G-32.768K-12.5	MEC	Tuning Fork Watch Crystals	32.768KHz	12.5pF	3*8mm	35KΩ	±20PPM



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