



Frequency Range:

12.00MHz to 50.00MHz

Features:

- High Reliability & Low Cost Unit
- Tight Stability & Extended Temperature Available
- Lead-free Type
- For automotive applications, please contact our sales representative



Actual Size



QUARTZ
CRYSTALS

■ Standard Specifications

Item	Value
Frequency Range	12.00 to 50.00MHz
Frequency Tolerance	±30ppm (tighter tolerance also available)
Frequency Tolerance over Temperature range	±50ppm (tighter tolerance also available)
Operating Temperature Range	-10 °C to +60 °C (other operating range also available)
Operable Temperature Range	-40 °C to +85 °C
Equivalent Series Resistance (ESR)	Please refer to the ESR Table
Drive Level	
Load Capacitance	
Ageing	

TELCONA

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■ ESR Table

Frequency Range (MHz)	Mode	Standard ESR (Ohm)
12 to 20	AT Cut Fund.	80
20 to 50	AT Cut Fund.	50

Note:

1. Manufacturer reserves the right to change the specification and content of this product for improvement without notification.
2. Custom specification is welcome. Please contact our sales representative for further details.
3. If the crystal is intended for applications which have direct impact on human life and properties, and require a high degree of reliability and safety concerns, customers must provide full information such as but not limit to the application, electrical and reliability specification at the inquiry beginning stage.
4. Customers have to agree to the "Guideline for handling crystal units" and "Standard Terms and Condition of Sales" which is printed this catalog before placing orders to our company or our distributors. There are also unpredictable factors such as applied condition, oscillation margin and etc and customers must check them beforehand. In case of queries, please do not fail to send inquiry to our company before ordering.

<http://www.hongkongcrystal.com>
 E-mail: China: sales.cn@hongkongcrystal.com
 HongKong/Overseas: inquiry@hongkongcrystal.com

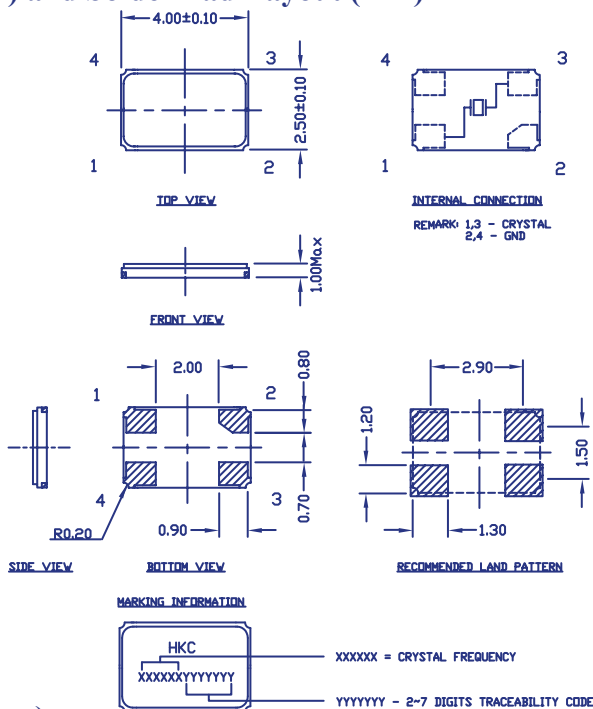
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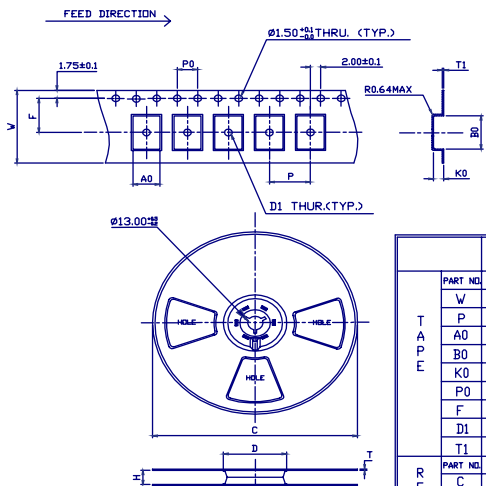


■ Dimensions (mm) and Solder Pad Layout (mm)



QUARTZ CRYSTALS

■ Tape & Reel (mm)



	8x4.5 SMD	7x5 SMD	6x3.5 SMD	5x3.2 SMD	4x2.5 SMD	3.2x2.5 SMD	2.5x2.0 SMD	
T A P E	PART NO.	48065002	48065001	48060036	48065023	48065018	48065024	
	W	16.00 ^{+0.03} _{-0.1}	16.00 ^{+0.03} _{-0.1}	16.00 ^{+0.03} _{-0.1}	12.00 ^{+0.03} _{-0.1}	12.00 ^{+0.03} _{-0.1}	8.00 ^{+0.03} _{-0.1}	8.00 ^{+0.03} _{-0.1}
	P	8.00±0.1	8.00±0.1	8.00±0.1	8.00±0.1	8.00±0.1	4.00±0.1	4.00±0.1
	A0	4.80±0.1	5.40±0.1	3.75±0.1	3.50±0.1	2.70±0.1	2.80±0.1	2.40±0.1
	B0	8.30±0.1	7.40±0.1	6.20±0.1	5.40±0.1	4.20±0.1	3.60±0.1	2.85±0.1
	K0	1.70±0.1	1.65±0.1	1.20±0.1	1.50±0.1	1.00±0.1	1.25±0.1	1.15±0.1
	P0	4.00±0.1	4.00±0.1	4.00±0.1	4.00±0.1	4.00±0.1	4.00±0.1	4.00±0.1
	F	7.50±0.1	7.50±0.1	7.50±0.1	5.50±0.1	5.50±0.1	3.50±0.1	3.50±0.1
	D1	1.50 ^{+0.03} _{-0.1}	1.50 ^{+0.03} _{-0.1}	1.50 ^{+0.03} _{-0.1}	1.50 ^{+0.03} _{-0.1}	1.50 ^{+0.03} _{-0.1}	1.00 ^{+0.03} _{-0.1}	1.00 ^{+0.03} _{-0.1}
	TJ	0.30±0.05	0.30±0.05	0.30±0.05	0.30±0.05	0.30±0.05	0.20±0.05	0.25±0.05
R E E L	PART NO.	48060024	48060050	48065020	48065026	48065020	48065026	
	C	Ø178.0±1	Ø330±1	Ø178±1	Ø330±1	Ø178±1	Ø330±1	
	D	Ø50.0±0.5	Ø100.0±1	Ø60.0±0.5	Ø100.0±1	Ø60.0±0.5	Ø100.0±1	
	H	16.5±0.5	16.5±0.5	13.1±0.2	12.5±0.5	13.1±0.2	12.5±0.5	
	T	1.50±0.2	2.3±0.3	1.2±0.2	2.3±0.3	1.2±0.2	2.3±0.3	
	TJ	0.30±0.05	0.30±0.05	0.30±0.05	0.30±0.05	0.30±0.05	0.30±0.05	
STANDARD PACKING QTY./REEL	1000PCS	4000PCS	1000PCS	5000PCS	2000PCS	5000PCS	3000PCS	
MAXIMUM PACKING QTY./REEL	1300PCS	1300PCS	1800PCS	4600PCS	4600PCS	6300PCS	6300PCS	