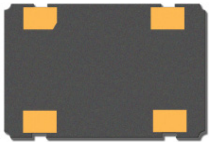
7050 Crystal Clock Oscillator

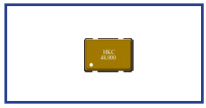
■ Holder Type: C4(7.0×5.0)

Frequency Range:
0.50MHz to 160.00MHz

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



Actual Size



■ Standard Specifications

Item	Value	
Frequency Range	0.50 to 160.00MHz	
Frequency Tolerance @ 25 °C	±25ppm, ±50ppm, ±100ppm (tighter tolerance also available)	
Operating Temperature Range	0 °C to +70 °C / -40 °C to +85 °C (other operating range also available)	
Operable Temperature Range	-55 °C to +125 °C	
Output Type	HCMOS / TTL	
Output Load	0.5MHz to 50MHz: 50pF Max	10TTL
	>50MHz to 80MHz: 30pF Max	
	>80MHz to 160MHz: 15pF Max	
Operating Voltage	3.3V±10% / 5V±10%	
Output Symmetry	HCMOS:40~60%(at 50%V_{DD}) 45~55% is avaiable	TTL: 40~60% (at 1.4V V_{DD}) 45~55% is avaiable
"High" Output Voltage	HCMOS: 90%V_{DD} Min	TTL: 2.4V Min
"Low" Output Voltage	HCMOS: 10%V_{DD} Max	TTL: 0.4V Max
Current Consumption	0.50 to 7.00MHz 30mA Max	
	>70.00 to 160.00MHz 50mA Max	
Rise and Fall Time	0.50 to 160.00MHz 6ns Max	
Tri-State	Yes	
Ageing	Max 5ppm / year	

* For special requirements not included in our standard datasheet, please contact sales representative.

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.

Ver.1.1

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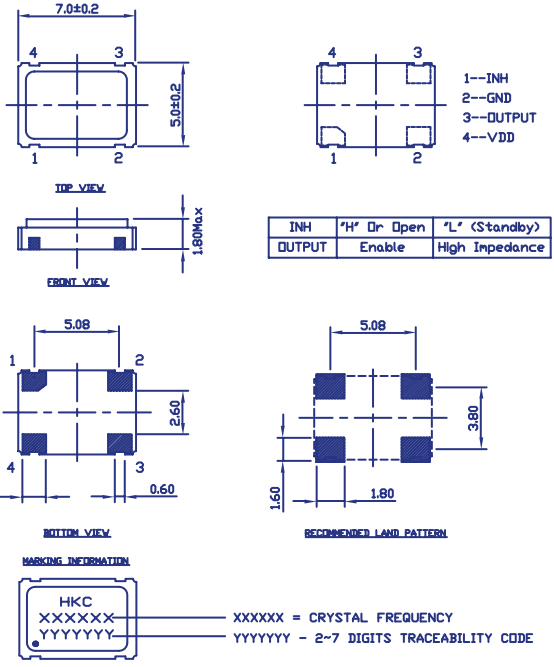
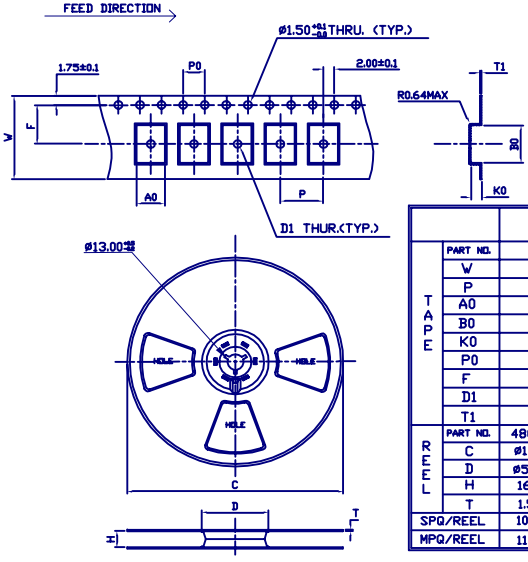
■ Dimensions (mm) and Solder Pad Layout (mm)



INH	"H" Or Open	"L" (Standby)
OUTPUT	Enable	High Impedance

■ Tape & Reel (mm)



		7x5 OSC.		5x3.2 OSC.		3.2x2.5 OSC	2.5x2.0 OSC
TAPE	PART NO.	48060041		48065023		48065011	48065024
	W	16.00±0.3		12.00±0.30		8.00±0.30	8.00±0.30
	P	8.00±0.1		8.00±0.10		4.00±0.10	4.00±0.10
	A0	5.30±0.1		3.50±0.10		2.80±0.10	2.40±0.10
	B0	7.80±0.1		5.40±0.10		3.60±0.10	2.85±0.10
	K0	2.00±0.1		1.50±0.10		1.25±0.10	1.15±0.10
	P0	4.00±0.1		4.00±0.10		4.00±0.10	4.00±0.10
	F	7.50±0.1		5.50±0.10		3.50±0.10	3.50±0.10
	D1	1.50 +0.10 -0.00		1.50 +0.10 -0.00		1.00 +0.10 -0.00	1.00 +0.25 -0.00
	T1	0.30±0.05		0.30±0.05		0.20±0.05	0.25±0.05
REEL	PART NO.	48060024	48060050	48065020	48065026	48065015	
	C	ø178.0±1	ø330±1	ø178±1	ø330±1	ø178±1	ø178±1
	D	ø50.0±0.5	ø100.0±1	ø60.0±0.5	ø100.0±1	ø60.0±0.5	ø60.0±0.5
	H	16.5±0.5	16.5±0.5	13.1±0.2	12.5±0.5	9.5±0.8	9.5±0.8
	T	1.50±0.2	2.3±0.3	1.2±0.2	2.3±0.3	1.2±0.2	1.2±0.2
SPQ/REEL		1000PCS	4000PCS	1000PCS	5000PCS	3000PCS	3000PCS
MPQ/REEL		1100PCS	4100PCS	1400PCS	5500PCS	3500PCS	3800PCS

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