

# CRYSTAL OSCILLATOR

## PART NUMBERING GUIDE

**SCO - 02 0 10 A D S R - 32.000M**

<p><b>OUTPUT</b></p> <p>0 : 5.0V CMOS COMPATIBLE</p> <p>1 : 5.0V TTL</p> <p>2 : 5.0V CMOS</p> <p>3 : 3.3V CMOS COMPATIBLE</p> <p><b>FREQUENCY STABILITY</b></p> <p>10 : ± 10PPM</p> <p>25 : ± 25PPM</p> <p>50 : ± 50PPM</p> <p>BLANK : ±100PPM</p> <p><b>OPERATING TEMPERATURE RANGE</b></p> <p>A : -40℃ ~ +85℃</p> <p>B : -20℃ ~ +70℃</p> <p>BLANK : 0℃ ~ +70℃</p>	<p><b>FREQUENCY</b></p> <p>M : MHz</p> <p>K : KHz</p> <p><b>TAPING</b></p> <p>BLANK : NONE(Standard)</p> <p>R : Reel &amp; Tape</p> <p><b>PIN 1 CONNECTION</b></p> <p>S : TRI-STATE, E/D</p> <p>BLANK : NO CONNECTION</p> <p><b>DUTY CYCLE</b></p> <p>D : 55/45</p> <p>BLANK : 60/40</p>
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## ELECTRICAL SPECIFICATIONS

OUTPUT		TTL	CMOS		TTL & CMOS COMPATIBLE
Frequency Range		125 KHz ~ 70 MHz	32.768KHz	125 KHz ~ 100 MHz	125 KHz ~ 125 MHz
Frequency Stability		±25 ~ ±100 PPM	±25 ~ ±100 PPM		±25 ~ ±100 PPM
Operating Temp. Range		0℃ ~ 70℃	0℃ ~ 70℃		0℃ ~ 70℃
Power Supply	Osc. Voltage	+5.0VDC ±10% +3.3VDC ±10%	5.0VDC	+5.0VDC ±10% +3.3VDC ±10%	+5.0VDC ±10% +3.3VDC ±10%
	Osc. Current	20~80mA MAX	200μA MAX	10~80mA MAX	20~80mA MAX
Output	Duty cycle	50% ±10% (1.4V)	50% ±10% (1/2VDD)		50% ±10% (TTL:1.4V,C-MOS:1/2VDD)
	Rise/Fall time	10nS MAX	1nS MAX	10nS MAX	10nS MAX
	Fan out	1 to 10 TTL	15pF		1 to 10 TTL , 15pF
Option		Duty 55/45, Tri-state	Duty 55/45, Tri-state		Duty 55/45, Tri-state

## MECHANICAL DIMENSIONS

