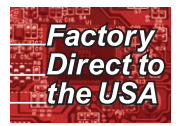


# Surface Mount Crystal

- S5CA (5.0 x 3.2 x 1.0 mm)
- S5GA (5.0 x 3.2 x 1.1 mm)



## Electrical Specifications

SMD Crystal S5CA & S5GA		S5CA **	S5GA **
CERAMIC SMD			
PARAMETER	CONDITION		
FREQUENCY RANGE	FUNDAMENTAL	8 MHz to 60 MHz	8 MHz to 60 MHz
DIMENSIONS		5.0 x 3.2 x 1.0 MM	5.0 x 3.2 x 1.1 MM
LOAD CAPACITANCE (CL)		6 TO 32 pF & SERIES	6 TO 32 pF & SERIES
STATIC CAPACITANCE (Co)		5 pF MAX	5 pF MAX
EQUIVALENT SERIES RESISTANCE (ESR)		SEE TABLE 1 BELOW	SEE TABLE 1 BELOW
MODE		FUNDAMENTAL	FUNDAMENTAL
DRIVE LEVEL		10 μW typ., 100 μW MAX	10 μW typ., 100 μW MAX
FREQ. TOLERANCE AT +25C	STANDARD	+/-30 PPM	+/-30 PPM
	OPTIONAL	+/-10 PPM to +/-100 PPM	+/-10 PPM to +/-100 PPM
STABILITY VS. TEMP.	STANDARD	+/-30 PPM	+/-30 PPM
	OPTIONAL	+/-10 PPM to +/-100 PPM	+/-10 PPM to +/-100 PPM
OPERATING TEMP. RANGE	STANDARD	-20°C to +70°C	-20°C to +70°C
	OPTIONAL	SEE TABLE 2 BELOW	SEE TABLE 2 BELOW
STORAGE TEMP. RANGE		-40°C to +85°C	-40°C to +85°C
AGING	FIRST YEAR	5 PPM	5 PPM
HERMETIC SEALED		YES, SEAM SEAL	YES, GLASS SEAL
INSULATION RESISTANCE		500 MΩ Min	500 MΩ Min
SOLDER PADS	QTY:	2	2
DLD TESTED	RLD, DLD, FLD	YES, 100%	YES, 100%
RoHS STATUS		FULLY COMPLIANT	BY EXEMPTION
LEGACY P/N		CX-5CA	CX-5GA

FREQUENCY RANGE	MAX ESR	MODE
8.000 MHz to 10.999 MHz	100 Ohms	Fundamental
11.000 MHz to 13.999 MHz	80 Ohms	Fundamental
14.000 MHz to 26.999 MHz	70 Ohms	Fundamental
27.000 MHz to 60.000 MHz	50 Ohms	Fundamental

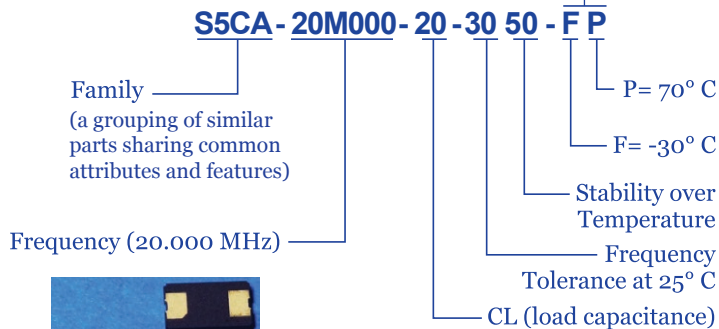
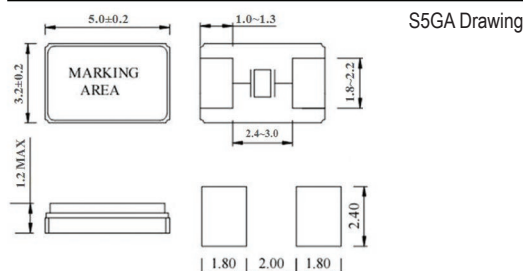
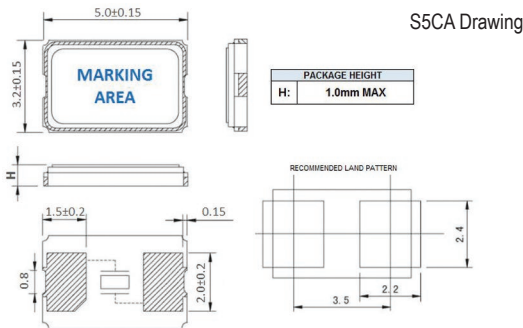
POPULAR TEMPERATURE RANGES
-10°C / +60°C
-20°C / +70°C
-40°C / +85°C
OTHER TEMPERATURE RANGES AVAILABLE - CONSULT FACTORY

**\*\* PRODUCT IS NOT RECOMMENDED FOR NEW DESIGNS**

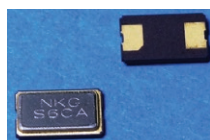
NOTES: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Dimensions (Unit:mm)

## \*NKG Crystal Part Example Key



1st letter	2nd letter
A= -55°	L= 50°
B= -50°	M= 55°
C= -45°	N= 60°
D= -40°	P= 70°
E= -35°	Q= 75°
F= -30°	R= 80°
G= -25°	T= 85°
H= -20°	U= 90°
J= -10°	V= 100°
K= 0°	W= 105°
	X= 110°
	Y= 120°
	Z= 125°



**Contact**  
[www.nkg-usa.com/contactnkg](http://www.nkg-usa.com/contactnkg)