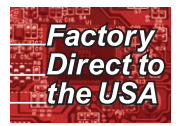


# Surface Mount Crystal

•SR1-06/UM-5 (12.5 x 7.4 x 3.5 mm)



## Electrical Specifications

SMD Crystal SR1-06 / UM-5 UM, GULL WINGS (SMD)		
PARAMETER	CONDITION	SR1-06 / UM-5
FREQUENCY RANGE	FUNDAMENTAL	8 MHz to 40 MHz
	3rd O.T.	30 MHz to 100 MHz
	5th O.T.	80 MHz to 125 MHz
DIMENSIONS		12.5 x 7.4 x 3.5 MAX
LOAD CAPACITANCE (CL)		6 TO 32 pF & SERIES
STATIC CAPACITANCE (Co)		7 pF MAX
EQUIVALENT SERIES RESISTANCE (ESR)		SEE TABLE 1 BELOW
MODE		SEE TABLE 1 BELOW
DRIVE LEVEL		50 μW typ., 500 μW MAX
FREQ. TOLERANCE AT +25C	STANDARD	+/-30 PPM
	OPTIONAL	+/-10 PPM to +/-50 PPM
STABILITY VS. TEMP.	STANDARD	+/-30 PPM
	OPTIONAL	+/-10 PPM to +/-100 PPM
OPERATING TEMP. RANGE	STANDARD	-20°C to +70°C
	OPTIONAL	SEE TABLE 2 BELOW
STORAGE TEMP. RANGE		-40°C to +85°C
AGING	FIRST YEAR	5 PPM
HERMETIC SEALED		YES, RESISTANCE WELD
INSULATION RESISTANCE		500 MΩ Min
SOLDER PADS	QTY:	3
DLD TESTED	RLD, DLD, FLD	YES, 100%
RoHS STATUS		FULLY COMPLIANT
LEGACY PN		CR-06

FREQUENCY RANGE	MAX ESR	MODE
8.000 to 9.999 MHz	80	FUND
10.000 to 12.999 MHz	50	FUND
13.000 to 19.999 MHz	30	FUND
20.000 to 40.000 MHz	25	FUND
30.000 to 39.999 MHz	50	3rd O.T.
40.000 to 100 MHz	40	3rd O.T.
80.000 to 125.000 MHz	100	5th O.T.

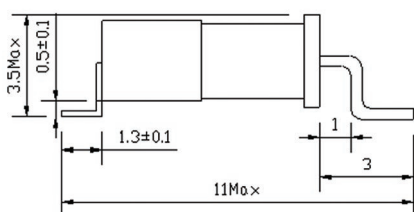
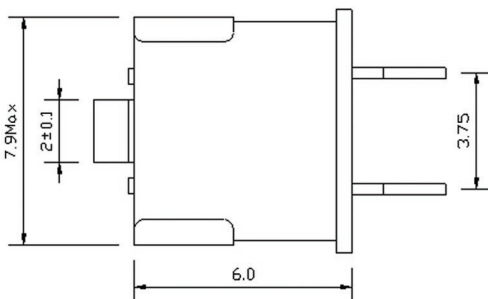
POPULAR TEMPERATURE RANGES
-10°C / +60°C
-20°C / +70°C
-40°C / +85°C

OTHER TEMPERATURE RANGES AVAILABLE - CONSULT FACTORY

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

## Dimensions (Unit:mm)

## \*NKG Crystal Part Example Key



SR1 - 06 - 20M000 - 20 - 30 50 - F P

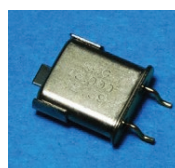
Family (a grouping of similar parts sharing common attributes and features)

Package (if necessary)

Frequency (20.000 MHz)

P = 70° C  
 F = -30° C  
 Stability over Temperature  
 Frequency Tolerance at 25° C  
 CL (load capacitance)

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



\*NOT TO SCALE

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