

Surface Mount Crystal

•SR1-01/HC-49U (19.4 x 11.5 x 5.3(max) mm)



Electrical Specifications

SMD Crystal SR1-01 / HC-49U, GULL WINGS (SMD)		SR1-01 / HC-49U
PARAMETER	CONDITION	
FREQUENCY RANGE	FUNDAMENTAL	1.8 MHz to 32 MHz
	3rd O.T.	24 MHz to 80 MHz
	5th O.T.	70 MHz to 125 MHz
DIMENSIONS		19.4 x 11.5 x 5.3 MAX
LOAD CAPACITANCE (CL)		6 TO 32 pF & SERIES
STATIC CAPACITANCE (Co)		7 pF MAX
EQUIVALENT SERIES RESISTANCE (ESR)		SEE TABLE 1A & 1B BELOW
MODE		SEE TABLE 1A & 1B BELOW
DRIVE LEVEL		10 μW typ., 300 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 P/N		CR1-01

TABLE 1A - MAXIMUM ESR and CRYSTAL MODE

FREQUENCY RANGE	MAX ESR	MODE
1.800 to 1.999 MHz	800	FUND
2.000 to 2.999 MHz	500	FUND
3.000 to 3.499 MHz	60	FUND
3.500 to 4.999 MHz	50	FUND
5.000 to 5.999 MHz	40	FUND
6.000 to 7.999 MHz	35	FUND

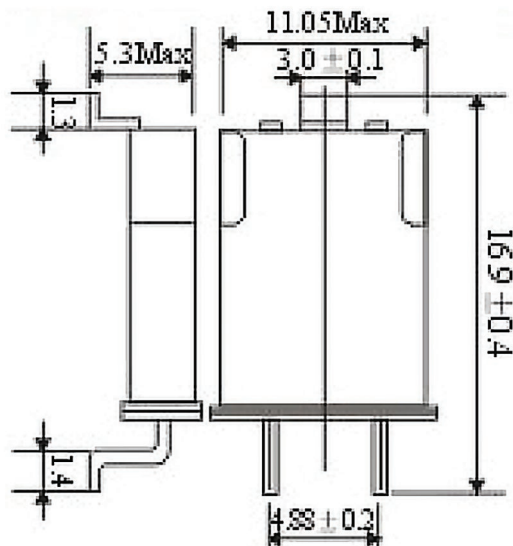
TABLE 1B - MAXIMUM ESR and CRYSTAL MODE

FREQUENCY RANGE	MAX ESR	MODE
8.000 to 12.999 MHz	25	FUND
13.000 to 32.000 MHz	20	FUND
24.000 to 29.999 MHz	60	3rd O.T.
30.000 to 80.000 MHz	40	3rd O.T.
70.000 to 125.000 MHz	60	5th O.T.

TABLE 2 - OPTIONAL TEMPERATURE RANGES

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

Dimensions (Unit:mm)

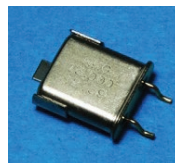


*NKG Crystal Part Example Key

SR1 - 01 - 20M000 - 20 - 30 50 - F P

- Family (a grouping of similar parts sharing common attributes and features)
- Package (if necessary)
- Frequency (20.000 MHz)
- CL (load capacitance)
- P = 70° C
- F = -30° C
- Stability over Temperature
- Frequency Tolerance at 25° C

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°



*NOT TO SCALE

Contact
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