

Surface Mount Crystal

•S8GA (8.0 x 4.5 x 1.5 mm)

NKG

Factory
Direct to
the USA

Electrical Specifications

SMD Crystal S8GA		S8GA ** (not recommended for new designs)
CERAMIC SMD		
PARAMETER	CONDITION	
FREQUENCY RANGE	FUNDAMENTAL	8 MHz to 55 MHz
	3RD OVERTONE	40 MHz to 80 MHz
DIMENSIONS		8.0 x 4.5 x 1.5 mm
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		10 μ W typ., 300 μ W MAX
FREQ. TOLERANCE AT +25C	STANDARD	+/-30 PPM
	OPTIONAL	+/-10 PPM to +/-100 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, GLASS SEAL
INSULATION RESISTANCE		500 M Ω Min
SOLDER PADS	QTY:	2
DLD TESTED	RLD, DLD, FLD	YES, 100%
RoHS STATUS		COMPLIANT BY EXEMPTION
LEGACY P/N		S8GA

TABLE 1 - MAXIMUM ESR and CRYSTAL MODE

FREQUENCY RANGE	MAX ESR	MODE
8.000 MHz to 9.999 MHz	100	Fundamental
10.000 MHz to 11.999 MHz	80 Ohms	Fundamental
12.000 MHz to 55.000 MHz	40 Ohms	Fundamental
40.000 MHz to 80.000 MHz	70 Ohms	3rd Overtone

TABLE 2 - OPTIONAL TEMPERATURE RANGES

MOST POPULAR	CODE
-10°C~+60°C	JN
-20°C~+70°C	HP
-40°C~+85°C	DT

OTHER TEMPERATURE RANGES AVAILABLE - CONSULT FACTORY

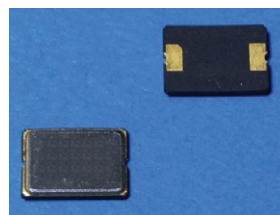
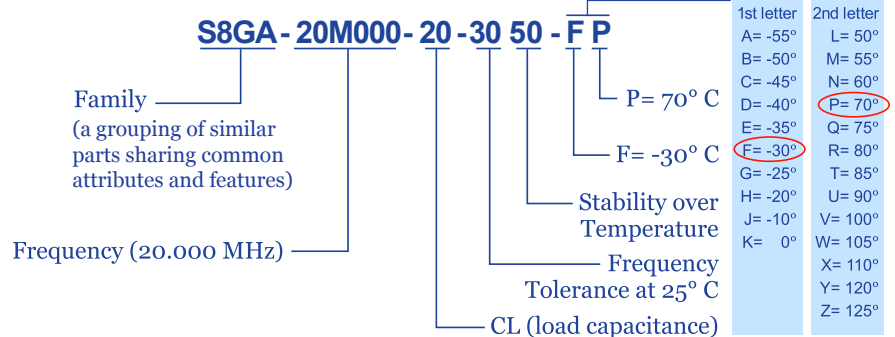
**** S8GA IS NOT RECOMMENDED FOR NEW DESIGNS**

NOTES: _____

Dimensions (Unit:mm)



*NKG Crystal Part Example Key



*NOT TO SCALE

Contact
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