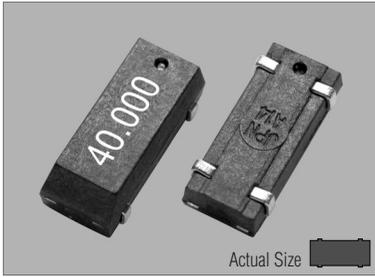


Quartz Crystal Units

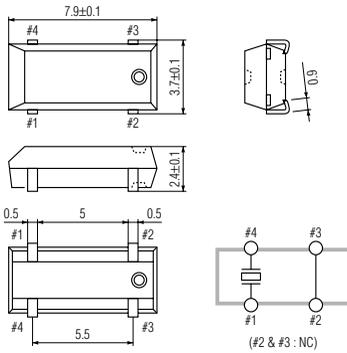
95SMX(G)

STANDARD LOW FREQUENCY SMD CRYSTALS

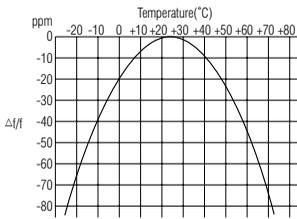
95SMX(G)



95SMX(G)

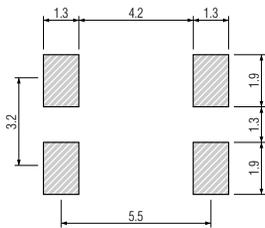


XY-CUT

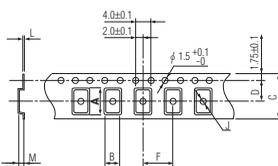


TYPICAL TEMPERATURE CHARACTERISTICS

SOLDERING PATTERN



TAPE SPECIFICATIONS

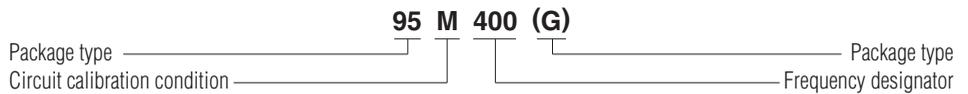


A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
8.3	4.0	16.0	7.5	8.0	1.6	0.3	2.7	330	3000pcs

STANDARD SPECIFICATIONS

Item	Symbol	Specifications
Frequency range	F	30.000 kHz to 100.000 kHz
Package type		95SMX(G)
Frequency tolerance at +25°C	$\Delta f/F$	B : ± 20 ppm C : ± 30 ppm D : ± 50 ppm standard E : ± 100 ppm
Load capacitance	CL	12.5 pF, Typical
Equivalent series resistance	ESR	50 k Ω max.
Drive level	P	1.0 μ W max.
Turnover temperature	Tt	+25°C ± 5 °C
Temperature coefficient	β	-0.034 ppm/°C ² , Typical
Quality factor	Q	50000 min.
Shunt capacitance	Co	0.8 to 1.7 pF
Motional capacitance	C1	0.001 to 0.004 pF
Capacitance ratio	γ	330 to 800
Aging (for first year)	$\Delta f/F$	± 5 ppm max. at +25°C ± 3 °C
Insulation resistance	Ri	500M Ω min. at 100V DC ± 15 V
Cut		XY-Cut
Operating temperature range	To	-40°C to +85°C
Storage temperature range	Ts	-55°C to +125°C
Shock resistance	$\Delta f/F$	± 5 ppm max.
Vibration resistance	$\Delta f/F$	± 5 ppm max.
IR reflow resistance	$\Delta f/F$	± 10 ppm max.
Reflow condition		10 seconds max. at +250°C ± 10 °C

PART NUMBERING GUIDE



EXAMPLE

SMI PART NO.	Package	Circuit calibration condition	Frequency
95M400(G)	95(G) = 95SMX(G)	M = Parallel resonance CL = 12.5 pF	400 = 40.000 kHz

PACKAGE DATA

Item	Package	95SMX(G)
Outer package		Plastic
Sealing		Press-fit (2 \times 6mm built-in)
Terminal lead frame		Copper alloy (CuSn)
Terminal plating		SnCu
RoHS		Compliant

STANDARD FREQUENCIES

FREQUENCY MHz	FREQUENCY DESIGNATOR
30.634	306
31.250	3125
32.000	320
36.000	360
38.000	380
38.400	384
40.000	400
60.000	600
65.536	655
75.000	750
76.790	767
76.800	768
76.810	7681
77.500	775
77.503	77503
96.000	960
100.000	100.0