


# Quartz Crystal Specification

Frequency	<b>100.000000 MHz</b>
Cut	SC-cut
Vibration Mode	5 <sup>th</sup> overtone
Holder	TO-5 LPS, 0.155" (3,94 mm) max height, 3 external leads
Calibration Tolerance	-3 to +7 ppm at 95 °C
Load Capacitance	Series resonance
Frequency-Temperature Stability	<b>Upper</b> Turn Point from 92 to 100 °C
Motional Resistance Rs	110 ohms maximum
Motional Capacitance C1	0.19 fF nominal
Shunt Capacitance C0	3.3 pF typical
Quality Factor Q	110,000 minimum
Drive Level	< 100 µW
G-sensitivity	≤ 0.3 ppb/g per axis - test data to be provided
Aging	≤ ± 0.1 ppm/year after 30 days
Retrace	< 100 ppb within 1 hr after 24 hrs off
Marking	1. Paper Bar Code Labels only – NO OTHER MARKING
Environmental	Shock: MIL-STD-202G, M213 Condition C - 100 g, 6 msec, ½ sine Vibration: MIL-STD-202G, M204 Condition C, 10 g peak, 55 to 2000 Hz 1 sweep per axis Solderability, Seal and Workmanship per MIL-PRF-3098
RoHS	Parts are RoHS compliant

C	6-Mar-2023	Marking changed to Paper Label Only	CV
B	27-May-2022	Marking changed from label to 2D Laser	CV
A	04-Mar-2022	Frequency and P/N removed from marking requirements	CV

Revision		Date	Description			Approved
APPROVALS		DATE				
ENG	D. Scepanovic	25-Aug-2015	CAGE CODE	SIZE	DWG. NO.	REV
SALES	C. Visniar	25-Aug-2015	<b>00809</b>	<b>A</b>	<b>CC1104-100LPS</b>	<b>C</b>
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Note: Specifications subject to change – consult factory for latest revision.