


Quartz Crystal Specification

Frequency	50.000000 MHz
Cut	SC-cut
Vibration Mode	3 rd overtone
Holder	HC-35, 0.220" (5.58 mm) maximum height, 3 external leads
Calibration Tolerance	± 5 ppm at 85 °C
Load Capacitance	Series
Frequency-Temperature Stability	LTP from 80 to 90 °C
Motional Resistance Rs	60 ohms maximum
Motional Capacitance C1	0.38 fF nominal
Shunt Capacitance C0	2.7 pF nominal
Δ ESR	<10 ohms across operating temperature range of -55 to +85 °C
Quality Factor Q	> 200,000
Drive Level	500 uW
Aging	0.2 ppm/year after 30 days
Marking	1. P/N 2. Frequency 3. Bar code label with Serial Number - data to be provided
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

D	08-Apr-2013	Q from 180 to 200k CCN 1304009	LM
C	07-Apr-2009	Add P/N and Freq marking per customer	LM
B	12-Feb-2009	Incr delta ESR from 5 to 10 ohms - 0902025	LM
A	4-Nov-2008	Revised C1 and C0 for optimum Q - 0811005	LM

Revision		Date	Description	Approved		
APPROVALS		DATE				
ENG	R. Dowler	22-Oct- 2008	CAGE CODE	SIZE	DWG. NO.	REV
SALES	G. Johnston	22-Oct- 2008	00809	A	CC1039	D
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