QTC25 Series



Features

- Low in height, suitable for thin equipment
- Ceramic package and metal lid assures high reliability
- Tight tolerance and stability available

Applications

- High density applications
- Modem, communication and test equipment
- PMCIA, wireless applications
- Automotive applications

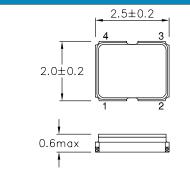
General Specifications							
Frequency Range	16.000 to 50.000MHz (Fundamental)						
Frenquency Tolerance at 25°C	±10 to ±30ppm (±30ppm standard)						
Frequency Stability over Temperature Range	See Stability vs. Temperature Table						
Storage Temperature	-55 to +125°C						
Aging per Year	±3ppm max.						
Load Capacitance C_L	7 to 32pF and Series Resonance						
Shunt Capacitance C ₀	5.0pF max.						
Equivalent Series Resistance (ESR)	See ESR Table						
Drive Level	100μW typ.						
Insulation Resistance (MΩ)	500 at 100Vdc ±15Vdc						

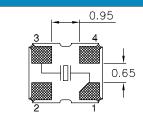
Equivalent Series Resistance (ESR) Frequency Range - MHz Mode of Operation 16.000 to 29.999 150 Fundamental 30.000 to 50.000 100

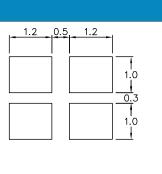
custom values available upon request

Frequency Stability vs. Temperature									
Operating Temperature	±10ppm	±20ppm	±30ppm	±50ppm	±100ppm				
-20 to +70°C	0	0	0	0	0				
-40 to +85°C	-	0	•	0	0				
-40 to +105°C	-	-	-	0	0				
-40 to +125°C	-	-	-	-	0				
				•	standard O available				

Mechanical Dimensions



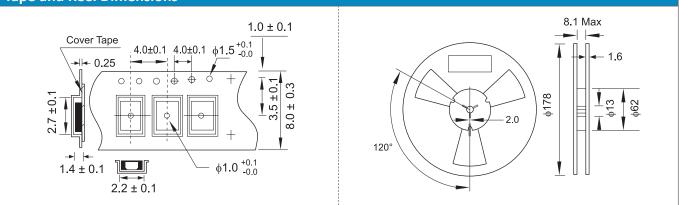




Quarz- technik Code	Package	Nominal Frequency (in MHz)	Vibration Mode	Load Capa- citance	Frequency Tolerance	Operating Temperature Range	Frequency Stability	Automotive Indicator	Packaging
QT = Quarz- technik	C25 = 2x2.5 4-Pad SMD	7 digits including the decimal point (f.ie. 12.0000)	F = AT-Fund	S = Series A = 8pF B = 12pF C = 16pF D = 18pF E = 20 pF	T1 = ±10ppm T2 = ±20ppm T3 = ±30ppm T5 = ±50ppm T0 = ±100ppm	C = -20 - +70°C I = -40 - +85°C E = -20 - +105°C A = -40 - +125°C	10 = ±10ppm 15 = ±15ppm 20 = ±20ppm 30 = ±30ppm 50 = ±50ppm 00 = ±100ppm	A = AEC-Q200	M = 250pcs Tape&Ree R = 1000pcs Tapeℜ B = Bulk

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Tape and Reel Dimensions



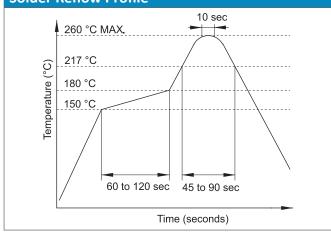
Marking Code Guide

Contains frequency, Quarztechnik manufacturing code, production code (month and year) and load capacitance.

Month	Codes			Year Codes					Load Capacitance Code in pF				
January	А	July	G	2010	0	2011	1	2012	2	pF	PN Code	рF	PN Code
February	В	August	н	2013	3	2014	4	2015	5	12	А	20	F
March	с	September	1	2016	6	2017	7	2018	8	18	В	22	G
April	D	October	J	2019	9	2020	0	2021	1	8	C	30	н
May	E	November	К							10	D	32	I
June	F	December	L							16	E	S	S

Example: First Line: 12.000 (Frequency) Second Line: QA4A (Quarztechnik - January - 2014 - 12 pF)

Solder Reflow Profile



Environmental Specifications							
Mechanical Shock	MIL-STD-202, Method 213, C						
Vibration	MIL-STD-202, Method 201 & 204						
Thermal Cycle	MIL-STD, Method 1010, B						
Gross Leak	MIL-STD-202, Method 112						
Fine Leak	MIL-STD-202, Method 112						