Quarze

Anbieter (Vertragshersteller)	der Anbieter ist: Hersteller	der Anbieter ist: Distributor	Anwendungsbereiche: Kommunikationstechnik	Anwendungsbereiche: Messtechnik	Anwendungsbereiche: Fahrzeugtechnik	Anwendungsbereiche: Consumer-Geräte	Anwendungsbereiche: Mikroprozessorquarze	Anwendungsbereiche: Filterquarze	Anwendungsbereiche: sonstige	Quarze mit maximaler Taktfrequenz: -32,768 kHz	Quarze mit maximaler Taktfrequenz: ≤1 MHz	Quarze mit maximaler Taktfrequenz: >1 MHz, ≤50 MHz	Quarze mit maximaler Taktfrequenz: >50 MHz, ≤100 MHz	Quarze mit maximaler Taktfrequenz: >100 MHz, ≤200 MHz	Quarze mit maximaler Taktfrequenz: >200 MHz	SMD-Versionen bedrahtete Versionen	kleinster verfügbarer Arbeitstemperaturbereich: Minimum (in °C)	kleinster verfügbarer Arbeitstemperaturbereich: Maximum (in °C)	kleinster verfügbarer Arbeitstemperaturbereich: Frequenztoleranz bei +25 °C (bester Wert in ppm)	kleinster verfügbarer Arbeitstemperaturbereich: Frequenzstabilität über den Temperaturbereich (bester Wert in ppm)	größter verfügbarer Arbeitstemperaturbereich: Minimum (in °C)	größter verfügbarer Arbeitstemperaturbereich: Maximum (in °C)	größter verfügbarer Arbeitstemperaturbereich: Frequenztoleranz bei +25 °C (bester Wert in ppm)	größter verfügbarer Arbeitstemperaturbereich: Frequenzstabilität über den Temperaturbereich (bester Wert in ppm)	Alterung pro Jahr: AT-Quarze (in ppm): min.	Alterung pro Jahr: AT-Quarze (in ppm): max.	Alterung pro Jahr: SC-Quarze (in ppm): min.	Alterung pro Jahr: SC-Quarze (in ppm): max.	bleihaltige Versionen weiterhin erhältlich
Abracon, www.abracon.com	X		●	●	●	●	●	●	●	●	●	●		●	●	●	●	10	40	5	10	60	125	10						
Acal BFi Germany, www.acaltechnology.com (ACT, Taitien, CTS)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-10	60	±5	±5	-40	150	±5	±10	±1	±5			
AEK, www.aek.at (Geyer)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-40	150	±5	±15	-40	150	±5	±15	±1	±1	±0,2	±2	●
AL-Elektronik Distribution, www.al-elektronik.de (Shenzhen Southstar)		X	●	●		●		●	●	●	●	●	●	●		●	●													
Alpharep, www.alpharep.de (Pericom Saronix-Ecera)	X		●	●	●	●	●			●	●	●	●	●	●	●	●	-20	70	1	3	-40	125	10	60	3	3			
Amec, www.asianmicro.de (AEC, CPM, KQT, SJK, SEC, WTL)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		50	±3	±5	-40	105	±5	±30		5		2	
APM Electronic, www.apm-electronic.de (KDS Daishinku)		X	●	●	●	●	●	●	●	●	●	●	●			●	●	-30	85	±2	±3	-50	150	±80	±95	2	15	2	15	
Arrow Electronics, www.arrowce.com (IQD, AVX-Kyocera, Ecliptek)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-55		±3	± 5	50	100	±10	±10	±1		±1		
auris, www.auris-gmbh.de	X		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		50	±3	±3	-40	125	±5	±70	±1	±3			
Axtal, www.axtal.com	X		●	●	●			●	●	●	●	●	●	●	●	●	●		50	±3	±5	-55	125	±5	±50	0,5	2	0.05	0.2	●
Beck Elektronik, www.beck-elektronik.de (AVX Kyocera, Samsung Electro-Mechanics)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-10	70	±10	±15	-40	150	±10	±50	±1	±10			
Bredemeier Electronics, www.bredemeiergmbh.de (Abracon, BMX International)		X	●	●	●	●	●	●	●	●	●	●	●			●	●	40	210	3	5									
BSV Bauteilservice Vrancken, www.bsvgermany.de		X	●	●		●	●	●	●	●	●	●	●	●		●	●	0	50	±3	±5	-55	125	±30	±50	±1	±10	±0,5	±20	●
Bürklin, www.buerklin.com		X	●	●	●	●	●	●	●	●	●	●	●			●	●	-20	75											
CBF Electronics, www.cbf-electronics.de (Fronter)		X	●	●	●	●		●	●	●		●	●	●		●	●	-40		±5	±5		125	±5	±5	±5	±5	±3	±5	●
Channel Microelectronic, www.channel-microelectronic.de (Epson, Epson Toyocom, Sunny Electronics)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	0	60	10	5	-40	105	10	50	3	5	3	5	
Codico, www.codico.com (NDK)		X	●	●	●	●	●	●	●	●		●	●	●		●	●	-10	60	±10	± 5	-40	150	±50	±150	±1	±3			
CompoTEK, www.compotek.de (Harmony Electronics, Ansen, Aker, Mercury, KDS, Magic, Yoketan, Hong Kong X'tals, Shoulder, SiTime)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-55	185	±2,5	±2,5	-55	200	±20	±100	1	5	1	5	●
CompoTRON, www.compotron.com (Bliley, Pletronics, TST Tai-Saw Technology, Siward)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-10	70	±3	±5	-40	125	±3	±15	±1	±5	±0,001	±0,01	
Comtec Crystals, www.comtec-crystals.com	X	X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	0	50	±5	±5	-30	125	±50	±50	±3	±5			
Conrad Electronic, www.conrad.biz (Euroquartz, Murata)		X	●	●		●	●	●	●	●	●	●	●			●	●	-10	40	3	5	-40	85	25	100					
DeBIT, www.debit-gmbh.de		X	●	●		●	●		●	●	●	●	●	●	●	●	●		60	3	5	-45	125	10	30	5	5	5	5	●
Deltron, www.deltron.ch		X	●	●				●	●	●	●	●	●	●	●	●	●													
Distrelec Schuricht, www.distrelec.de (Saronix, auris, IQD)		X	●	●	●	●	●			●	●	●	●			●	●	-40	85	±10	±10	-40	85	±10	±10	2	5	5	10	
Ecomal, www.ecomal.com (Aker, Vishay)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-10	70	5	5	-55	155	50	50	2	5	1	3	
ED-V, www.ed-v.de (IQD, FOQ, Sunny)		X	●	●	●	●	●			●	●	●	●	●	●	●	●	-10	60	±5	±5	-55	125	±5	±30	0,5	5	0,03	0,1	
Endrich Bauelemente, www.endrich.com (Chequers Electronics, Citizen, SMI)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-10	60	±5	±10	-40	125	±10	±70	±1	±3			
Epson Europe Electronics, www.epson-electronics.de	X		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-20	60	±1	±0,5	-40	125	±10	±20	±1	±2	±1	±2	
EVE, www.eve.de (auris)		X	●	●		●		●	●	●		●				●	●	-10	60	20		-40	85	20		3	5			
Farnell, www.farnell.de (Abracon, AEL Crystals, AVX, C-Mac, Cardinal, Citizen, Epson Toyocom, Hitachi, Kinseki, Multi-Contact, Mercury United, Prowave, Rakon, Raltron, Saronix, Vishay)		X	●	●	●	●	●	●	●	●	●	●	●	●		●	●							5	5					
Freqtech, www.freqtech.com (Connor Winfield)	X	X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●													
Future Electronics, www.futureelectronics.com (AVX, C-Mac, Fox, Vishay)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●													●
Getronic, www.getronic.de (SMI, Hong Kong X'tals, Nippon Ind.)		X	●	●	●	●	●	●	●	●	●	●	●	●		●	●		40	30	30	55	125	30	30	2	5	3	54	
Geyer Electronic, www.geyer-electronic.de	X		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-55	200	±3	±5	-55	200	±10	±100	±1	±5			●
Glyn, www.glyn.de (Seiko Instruments)		X	●	●	●	●	●	●	●	●						●	●													
Ineltek, www.ineltek.com (Micro Crystal, Sunny)		X	●	●	●	●	●	●	●	●	●	●	●	●		●	●	-10	60	±10	±5	-55	125	±30	±100	3	5			
ineltro Halmer Electronics, www.ineltro.at (Epson Toyocom)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-40	105	1	5									
Infratron, www.infratron.de (MMD, Quartztek)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●													●
IQD Frequency Products, www.iqdfrequencyproducts.com	X		●	●	●	●			●	●	●	●	●	●	●	●	●	-10	60	5	0.5	-55	125	100	50					●

Quarze

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Jauch Quartz, www.jauch.de	X		●	●	●	●	●		●	●		●	●	●	●	●	●	-0	60	±3	±3	-40	125	±3	±50	±1	±5			
Kruse Electronic Components, www.kruse.de		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●												●
KVG Quartz Crystal Technology, www.kvg-gmbh.de	X		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	1	50	±3	±3	-55	125	±10	±50	0,1	1	0,01	0,1	●
Kyocera Electronic, www.kyocera.com	X		●	●	●	●	●		●	●	●	●	●			●			60	±5	±10	-40	150	±10	±150	±1	±3			
menges electronic, www.menges-electronic.com	X	X	●	●	●	●	●	●	●						●	●	●	40	85	5	5	-40	85							●
MEV Elektronik Service, www.mev-elektronik.com (Fox Electronics)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-40	85	5	10	-55	125	20	50	5	5	5	5	
mewa electronic, www.mewa-electronic.de		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●													
Micro Crystal, www.microcrystal.com	X		●	●	●	●	●	●	●	●	●	●	●	●	●	●														
micro electronic, www.micro-electronic.de (Hong Kong X'tals)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-40	125											
micronetics, www.micronetics.de		X	●	●		●			●	●	●	●				●	●	-40	85	5	5	-40	85	30	30	5	5	5	5	
MSC, www.msc-ge.com (KDS Daishinku, Micro Crystal, SiTime, TST Tai-Saw Technology, Vectron International)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-40	85	±10	±25	-55	180	±10	±25	±1	±3	±3	±5	●
Mütron Müller, www.muetron.de (Euroquartz, Hosonic)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			5	5	-55	175	50	50	2	5	1	3	●
N&H Technology, www.nh-technology.de	X		●	●	●	●		●		●			●	●		●	●	-40	85							±3	±30	±0,5	±2	
NDK-Frischer Electronic, www.frischer.de (NDK (Nihon Dempa Kogyo))		X	●	●	●	●	●	●	●	●		●	●	●		●			50	±5	±5	-40	160	±30	±180	±1	±10			
Novitronic, www.novitronic.com (NDK, Chequers Electronics, Geyer, Citizen)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-10	60	±3	±10	-40	125	±10	±70	±1	±3			
Petermann-Technik, www.petermann-technik.de (TJE, JYEG, MyFrequency, PhaseLink)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		50	±3	±5	-45	125	±5	±50	±1	±3	±0,001	±0,01	
pk components, www.pk-components.de (auris)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		50	±3	±3	-40	125	±5	±70	±1	±3			
Protec, www.protec-semi.de (FMI)		X	●					●	●	●	●	●	●	●	●	●	●	-135	210			-135	400							●
QT Quarztechnik, www.quarztechnik.com	X	X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		50	±2	±3	-55	125	±2	±40	<1	2			
QuartzCom, www.quartzcom.com	X		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	10	40	±3	±2	-55	125	±3	±50	±0,5	±3			●
Quarz, www.quarz.ch (Jauch, Siward, Axtal)	X	X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-40	85	±2	±15	-55	125	±5	±50	±1	±5	±0,1	±1	●
Reichelt Elektronik, www.reichelt.de		X	●	●	●	●	●	●	●	●	●	●	●	●		●	●													
Retronic, www.retronic.de (Abracon)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●													
Roßmann Electronic, www.rossmannweb.de		X		●		●		●		●	●	●	●	●		●	●													
RS Components, www.rsonline.de (Aker, IQD, Euroquartz, MEC, Fox)		X	●	●	●	●	●	●		●	●	●	●	●	●	●	●		60	10	5	-40	85	10	5	1	5	1	5	
RSG Electronic Components, www.rsg-electronic.de (Statek, KDK)		X	●	●	●	●	●	●	●	●	●	●	●	●		●	●	-10	60	±5	±5	-55	200	±50	±100	3	5	5	10	●
Rutronik, www.rutronik.com (Epson-Toyocom, HKC, HKCA, AVX, Kyocera, TXC)		X	●	●				●	●	●	●	●	●	●		●	●		50	3	8	-55	150	10	50	3	5	3	5	●
Schukat electronic, www.schukat.com (Abundance)		X				●	●			●	●	●				●	●	-10	60	50						5				
SE Spezial-Electronic, www.spezial.com		X	●	●	●	●	●		●	●	●	●	●			●	●	-20	70	±10	±10	-40	85	±10	±10	±1	±5			●
Seiko Instruments, www.seiko-instruments.de	X		●	●		●	●		●	●						●	●	-40	85	±3	±5	-40	85	±3	±5	±3	±3			
Semitron W. Röck, www.semitron.de		X	●	●	●	●	●		●	●						●	●	-40	85	±10	a.A.	-40	85	±10	a.A.					
setron, www.setron.de (auris)		X	●	●	●	●	●		●	●	●	●	●	●		●	●	-10	60	10	10-50	-55	125	10	10	1	5	1	5	
Sonntag electronic, www.sonntag-electronic.de (Maruwa)		X	●	●	●	●		●	●							●	●													
TDK-EPC, www.epcos.com	X		●		●										●	●		-40	85	±100	±250	-40	125	±100	±300		50		50	
Telcona, www.telcona.com		X	●	●	●	●	●	●	●	●	●	●	●	●		●	●		50	±5	±5	-40	125	±50	±150	±1	±5			
Texim Europe, www.texim-europe.com (Epcos, Epson Toyocom (BNL), TDK-EPC, TXC)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	-10	70	±10	±10	-40	125			±1	±5	±3	±5	●
TME Germany, www.tme.eu (YIC, IQD)		X	●		●	●		●		●		●	●		●							-40	105	20	2,5					
two4tronic, www.two4tronic.com		X								●	●	●	●	●	●	●	●													
Vishay Electronic, www.vishay.com	X								●	●	●	●	●			●	●		70	±20	±20	-20	85	±30	±30					
WDI, www.wdi.ag (Abracon, Aker, Cardinal, Crystek, Euroquartz, Fox, Hosonic, Interquip, IQD, MEC Mercury, Micro Crystal, MMD Monitor-Quartztek, MtronPTI, Raltron, Statek, TXC)		X	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		50	±2	±5	-55	270	±30	±100					●