



CMOS/ 1.8V/ 2.5×2.0mm



RoHS Compliant

Features

- Miniature ceramic package
2.5 (L) × 2.0 (W) × 0.7 (H) mm (Typ.)
- High Stability Output Frequency
±10×10⁻⁶ (-10 to +70°C)
±15×10⁻⁶ (-40 to +85°C)
- CMOS output
- Supply voltage V_{CC}=1.8V

Applications

- Wi-Fi, Bluetooth® etc.

How to Order

KC2520C 40.0000 C 1 L E 00
① ② ③ ④ ⑤ ⑥ ⑦

- ① Type (2.5×2.0mm SMD)
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (1.8V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry/ INH Function (45/ 55%, Stand-by)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 2000 pcs./ reel)

Table 1

Freq. Tol.		Operating Temperature Range (°C)	Note
Code	× 10 ⁻⁶		
Y	±10	-10 to +70	With only certain frequencies Standard specifications
K	±20	-40 to +85	
L	±15		

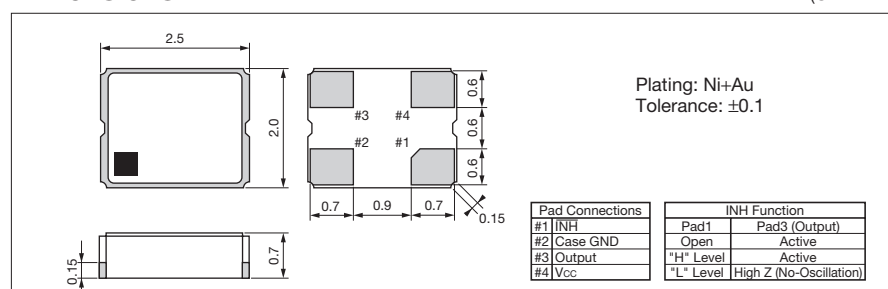
Specifications

Item	Symbol	Conditions		Min.	Max.	Units
Output Frequency Range	f _o			1.5	54	MHz
Frequency Tolerance	f _{tol}	Initial tolerance, Operating temperature range, Rated power supply voltage change, Aging (1 year @25°C), Shock and vibration	Op. Temp.: -40 to +85°C	-15	+15	×10 ⁻⁶
			Op. Temp.: -40 to +85°C	-20	+20	
			Op. Temp.: -10 to +70°C	-10	+10	
Storage Temperature Range	T _{stg}			-55	+125	°C
Operating Temperature Range	T _{use}			-10	+70	°C
				-40	+85	
Max. Supply Voltage	—			-0.3	+4.0	V
Supply Voltage	V _{CC}			+1.6	+2.0	V
Current Consumption (Maximum Loaded)	I _{CC}	No-load	1.5≤f _o <24MHz	—	3	mA
			24≤f _o ≤54MHz	—	3.5	
		CL≤15pF	1.5≤f _o <24MHz	—	4	
			24≤f _o ≤54MHz	—	4.5	
Stand-by Current	I _{std}			—	5	μA
Symmetry	SYM	@50% V _{CC}		45	55	%
Rise/ Fall Time (10% V _{CC} to 90% V _{CC} Maximum Loaded)	tr/ tf			—	4	ns
Low Level Output Voltage	V _{OL}	I _{OL} =4mA		—	10% V _{CC}	V
High Level Output Voltage	V _{OH}	I _{OH} =-4mA		90% V _{CC}	—	V
CMOS Load	L _{CMOS}	CMOS Output		—	15	pF
Input Voltage Range	V _{IN}			0	V _{CC}	V
Low Level Input Voltage	V _{IL}			—	30% V _{CC}	V
High Level Input Voltage	V _{IH}			70% V _{CC}	—	V
Disable Time	t _{dis}			—	100	ns
Enable Time	t _{ena}			—	5	ms
Start-up Time	t _{str}	@Minimum operating voltage to be 0 sec.		—	10	ms
1 Sigma Jitter	J _{Sigma}	Measured with Wavecrest SIA-3000		—	8	ps
Peak to Peak Jitter	J _{PK-PK}			—	80	ps

Note: All electrical characteristics are defined at the maximum load and operating temperature range.
Please contact us for inquiry about operating temperature range, available frequencies and other conditions.

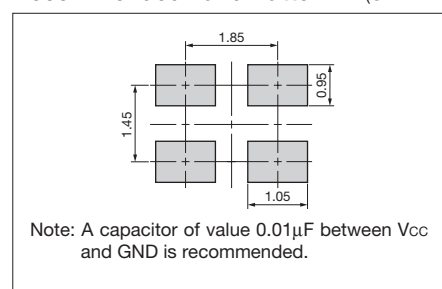
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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