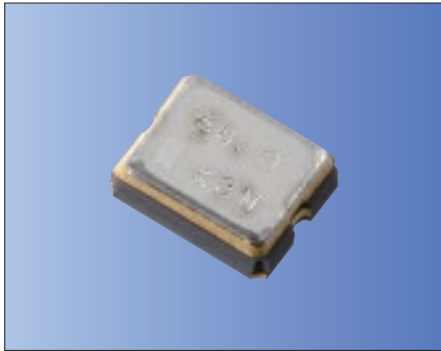


CMOS/ 2.5V, 3.3V Compatible/ 2.5×2.0mm



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}=2.5V/ 3.3V Compatible
Low Power Supply Consumption
- Wide Operating Voltage Range 2.25 to 3.63V

Applications

- Wi-Fi, Bluetooth® etc.

How to Order

KC2520C 40.0000 C 2 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 (2.5V, 3.3V Compatible)
- 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. Code	× 10 ⁻⁶	Operating Temperature Range (°C)	Note
Y	±10	-10 to +70	With only certain frequencies
K	±20	-40 to +85	
L	±15		Standard specifications

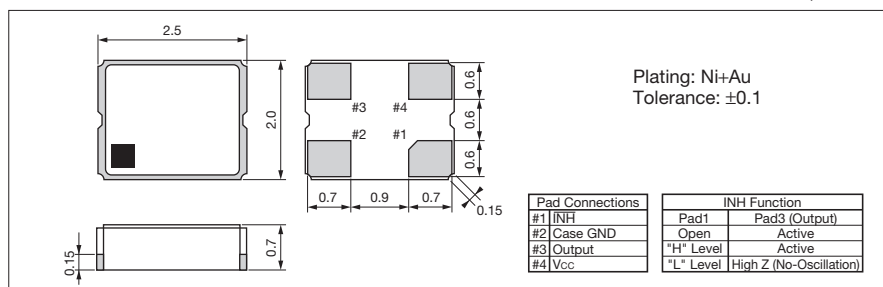
Specifications

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}		+2.25	+3.63	V	
Current Consumption (Maximum Loaded)	I _{CC}	No-load	1.5≤f _o <24MHz	—	3.0	mA
			24≤f _o ≤40MHz	—	3.5	
		40<f _o ≤54MHz	—	4.0		
		CL≤15pF	1.5≤f _o <24MHz	—	3.5	
			24≤f _o ≤40MHz	—	5.0	
			40<f _o ≤54MHz	—	6.0	
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	
	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

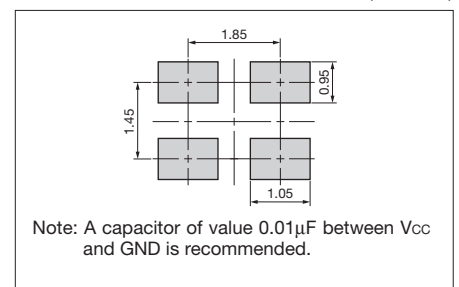
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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