

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



Ph Free

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

Applications

- W-LAN, WiFi, WiMAX 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/ Enable 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		

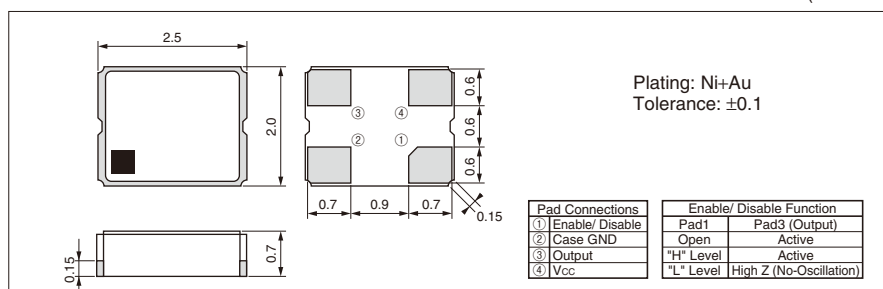
Specifications

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	—		-0.6	+4	V	
Supply Voltage	V _{cc}		2.25	3.63	V	
Current Consumption (Maximum Loaded)	I _{cc}	No-load	1.5≤f _o <24MHz	—	3	mA
			24≤f _o ≤40MHz	—	3.5	
		40<f _o ≤50MHz	—	4		
		CL<15pF	1.5≤f _o <24MHz	—	3.5	
			24≤f _o ≤40MHz	—	5	
			40<f _o ≤50MHz	—	6	
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)	t _r / t _f		—	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	

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)

