

SPECIFICATION SHEET

SPECIFICATION SHEET NO.	Q0718-CB1000K000L100
DATE	Jul. 18, 2023
REVISION	A0
DESCRIPITION	Thru-Hole Ceramic Resonator, L5.1*W6.3*H2.3mm, 2 Pins
	1000.0KHz, CRB Series
	Frequency Accuracy ±0.5%, Operating Temp. Range -40°C ~+80°C
	RoHS/RoHS III compliant
	Packed in Bulk
CUSTOMER	
CUSTOMER PART NUMBER	
CROSS REF. PART NUMBER	
ORIGINAL PART NUMBER	TGS CRB 1000KJ BLF
PART CODE	CB1000K000L100

VENDOR APPROVE Issued/Checked/Approved

 CUSTOMER APPROVE

 DATE:

7/18/2023

1

7/18/2023



Request For Quotation

PART CODE: CB1000K000L100

KHZ THRU-HOLE CERAMIC RESONATOR CRB SERIES

MAIN FEATURE

- MHz Thru-Hole Ceramic Resonator 2 pins
- Cross more competitors part
- RoHS/RoHS III compliant

APPLICATION

- Measurement Instrument
- Communication Electronics

PART CODE GUIDE

СВ	1000K000	L	100
1	2	3	4

1) CB: Part family Code for KHz Thru-Hole Ceramic Resonator, L5.1*W6.3*H2.3mm, 2 Pins, CRB series

2) 1000K000: Frequency range code for 1000.0KHz

3) L: Packed in Bulk

4) 100: Internal code (A~Z or 1~9 or Blank) for custom specification

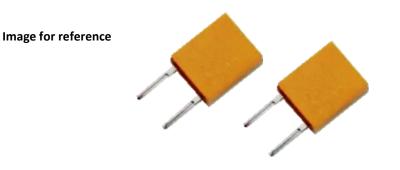






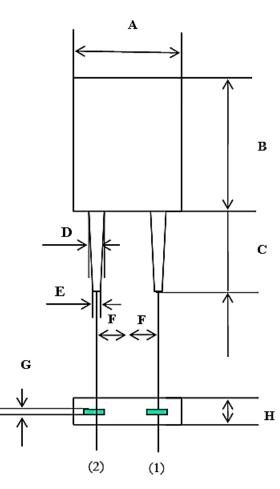
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DIMENSION (Unit: mm)



Marking

Line 1: Series code Line 2: Frequency range + Special code



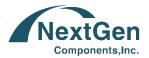
А	5.10±0.30
В	6.30±0.30
С	4.50±0.50
D	0.90±0.10
E	0.70±0.10
F	1.25±0.20
G	0.15±0.03
н	2.30±0.30

(1)	Input
(2)	Output

CRB

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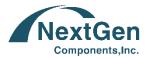


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ELECTRICAL PARAMETERS

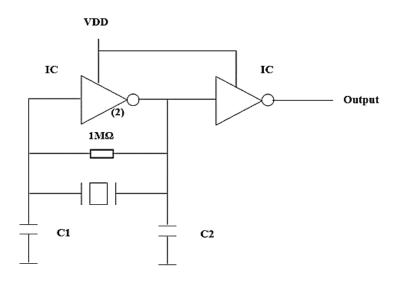
Parameter		Part No. Units Symbol	Value			Condition	
		,		Min.	Typical	Max.	_
Original	Manufacturer	TGS		TGS	Crystals		
Holder 1	Гуре	CRB	KHz Thru-Hole Ceramic Resonator , L5.1*W6.3*H2.3mm, 2 Pins				
Frequer	ncy Range	1000K	KHz		1000.0		
Withsta	nding Voltage	J	V			100	@DC, 1 min
Insulatio	on Resistance		MΩ	500			@100V, 1 min.
Operation Temper			°C	-40		+80	
Storage	Temperance		°C	-30		+85	
Rating V	/oltage		V		6.0		DC
		_			15		р-р
Frequen	ncy Accuracy		%		±0.5		
Resonar	nt Impedance		Ω			100	
Temper Coefficio Oscillati Frequer	ent of on		%			±0.3	Oscillation Frequency drift, -40°C ~+80°C)
	on Frequency ate (10 years)		%			±0.5	From initial value
IC Appli	cation				1/6TC4069UBP		
Capacita	ance (C1/C2)		pF		100		
							-
	Package	В			d in BULK		-
Other	RoHS Status	LF			compliant		-
other	Add Value				N/A		-
	Internal Control Code				N/A		

Note: Original Part Number: TGS CRB 1000KJ BLF



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TEST CIRCUIT (For Reference Only)



C1=C2=100PF

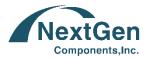
IC= 1/6CD4069UBE

VDD=+5V

Note:

Parts shall be tested under the condition (Temp.: 3~35°C. Hum.: 45~85%.) unless the any necessity to measure under

a standard condition(Temp.: 20±2 °C, Humidity :65±5% R.H.) is occurred.



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PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Item	Condition	Requirements
Lead Strength Lead Pulling	Applied to vertical weight 1Kg along with the direction of lead without any shock for 5-10sec.	- No mechanical damage
Lead Bending	Filter lead shall be subjected to withstand against 90°bending its stem. This operation shall be done toward both direction.	and the measured values shall meet Item 5.
Solderability	Dip the terminals of the filter no closer than 1.5mm into a soldering bath(230 <u>+</u> 5°C) for 5 <u>+</u> 1 sec. (refer to MIL-STD-202E-208C)	The solder shall be for coat at least 95% of the terminal surface
	Filter shall be measured after being applied vibration as below	
Vibration	Vibration Freq: 10-55HZ Amplitude : 1.5 mm Directions: 3 axial directions Time: 1 hour/each direction	No visible damage and the measured value shall meet table 1
Random Drop	Filter shall be measured after 3 times random dropping from the height of 76 cm. concrete floor.	
Resistance to Soldering Heat	Filter immersing the terminals up to 1.5 mm to filter's body in soldering bath (350 <u>+</u> 10°C) for 3 sec., filter shall be measure after being placed in natural condition for 1 hour.	The measured value shall meet table 1.

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PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

Item	Condition	Requirements
Humidity	After being placed in a chamber (Humic, :90-95% RH Temp.:40 + 2°C) for 100 hours filter shall be measured after placed in natural condition for 1 hour	
Life Test (High temperature)	After being placed in a chamber 85+2°C for 100 hours ,filter shall be measured after being placed in natural condition for 1 hour.	
Life Test (Low temperature)	Placed in a chamber (Temp:-55+ 2°C) for 100 hours, filter shall be measured placed in natural condition for 1 hour.	The measured value shall meet Table 1.
Thermal Shock	After temperature cycling of -55°C(30 minutes) to +85°C (30 minutes) was performed 5 times with a transfer time15 min filter shall be measured after being placed in natural condition for 1 hour	

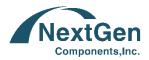
Table 1

Item	Limit Value
Center Frequency	<u>+</u> 1.0 kHz max

Note: The limits in the above table are referenced to the initial Measurements.

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CAUTION

1) Don't apply excess mechanical stress to the component and terminals at soldering. Do not use this product with

bend.

- 2) Do not clean or wash the component for it is not hermetically sealed.
- 3) Do not use strong acidity flux, more than 0.2wt% chlorine content, in flow soldering.
- 4) Don't be close to fire.
- 5) This specification mentions the quality of the component as a single unit. Please insure the component is
- thoroughly evaluated in your application circuit
- 6) Expire date (Shelf life) of the products is 12 months after delivery under the conditions of a sealed and an
- unopened. package. Please use the products within 12 months after delivery. If you store the products for a long
- time (more than 12 months), use carefully because the products may be degraded in the solderability or rusty.

Please confirm solderability and characteristics for the products regularly.

7) Please contact us before using the product as automobile electronic component.

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