		SPEC. NO:	T-0621-005A
新弘智		DATE: Nov.	. 27, 2018
CUSTOMER'S PRODUCT NAME:			
EMTEK PRODUCT NAME:			
HQC1008-36NJ-T1			
THIS SPECIFICATION IS: FULLY ACCEPTED DENIED ACCEPTED UNDER THE FOLLOWING COND	DITIONS		ROHS
SIGNATU	RE:	DATE:	
NAME(PR	INT):		
TITLE:			



FACTORY:

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TEL: 03-5894-433 FAX: 03-5894-523

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1. Scope

This specification applies Ceramic Chip Inductance HQC1008-36N□-T1 to be delivered to user.

2. Product Identification

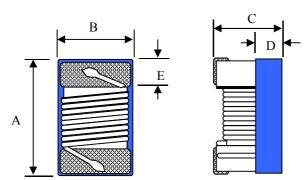
 $\frac{\text{HQC}}{(1)} 1008 - 36 \text{N} \square - \underline{\text{T1}}$ (1) (2) (3) (4) (5)

- (1) Product name
- (2) Shapes and dimensions
- (3) Inductance 36N: 36 nH
- (4) Tolerance

 $s=\pm 0.3\%$, $G=\pm 2\%$, $J=\pm 5\%$, $K=\pm 10\%$

(5) Taping Type

3. Shapes and Dimensions



A max. : 2.90 mm

B max.: 2.54 mm

C max.: 2.03 mm

D ref. : 1.30 mm

E : $0.45 \pm 0.1 \text{ mm}$



No Polarity

Drawn by	Checked by	Approved by		
Gindx Jul. 9. 2015	Theray Jul. 7.2015	Jul. 9. 2015		

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4. Electrical Characteristics

Customer	Our Product	Inductance	Inductance	Q/MHz	SRF(Min.)	Rdc±20%	Irms Max.	Color Coding		ng
Part Number	Part Number	(nH)/MHz	Tolerance	Min.	(MHz)	(Ω)	(mA)	1st	2nd	3rd
			G							
	HQC1008-36N□-T1	36/50	J	75/350	1500	0.09	1300	Orange	Blue	Black
			K							

1. When ordering, please specify tolerance and packaging codes. Ex: HQC1008-36NJ-T1

Tolerance : $s=\pm0.3\%$, $G=\pm2\%$, $J=\pm5\%$, $K=\pm10\%$

Packaging : Clear tape and reel { standard }.

2. L, Q · SRF: Agilent/HP E4991A+ Agilent/HP16197A

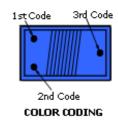
(The electrical specification test by the smallest gap position) or HP16193A

3. Rdc: Chroma Milliohmmeter 16502, or equivalent.

4. Irms for a 15°C rise above 25°C ambient.

5. Operating temperature range from -40 $^{\circ}$ C to 125 $^{\circ}$ C.

6. Color coding is not necessarily same position.



5. Material list

Item	Material
Core	Al2O3 96%
Wire	Copper wire
Epoxy	UV Eopxy

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6.Reliability Test

Item	Specifications	Test conditions
Solderability	The metalized area must have 90% minimum solder coverage.	Dip pads in flux and dip in solder pot(96.5 Sn/3.5 Ag solder) at $255^{\circ}\text{C} \pm 5^{\circ}\text{C}$.
Resistance to soldering heat	change in dimensions.	Inductors shall be reflowed onto a PC board using 96.5 Sn/3.5 Ag solder paste. Solder process shall be at a maximum temperature of 260°C. For 96.5 Sn/3.5 Ag solder paste:>217°C for 90 seconds
Vibration	change in dimensions.	Solder specimen inductor on the test printed circuit board. Apply vibrations in each of the x,y and z directions for 2 hours for a total of 6 hours. Frequency: 10~50 Hz Amplitude: 1.5mm
1	change in dimensions.	Inductors shall be subjected to temperature 125±2°C for 50±12 hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.
Static Humidity	openwinding.	Inductors shall be subjected to temperature 85±2°C and 90 to 95%RH. for ten 24-hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.
Component adhesion (push test)	Inductors shall be subjected to 1.8Kg	Inductors shall be reflow soldered (255°C ±5°C for 10 seconds) to a tinned copper substrate. A force gauge shall be applied to the side of the component. The device must withstand the stated force without a failure of the termination.

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Item	Specifications	Test conditions	
Low	-	Inductors shall be subjected to temperature	
temperature	change in dimensions.	-40±2°C for 48±12 hours.	
resistance	Inductance must not change more	Measure the test items after leaving the inductors	
	than the stated tolerance.	at room temperature and humidity for 1 to 2	
		hours.	
Resistance	There must be no case deformation,	Inductors must withstand 6 minutes of alcohol or water.	
to	change in dimensions, or obliteration		
solvent	of marking.		
Thermal	There must be no case deformation or	Inductors shall be subjected to 10 cycles to the	
shock	change in dimensions.	the following temperature cycle:	
	Inductance must not change more		
	than the stated tolerance.		
		1 cycle	
		+125°C 30 min.	
		$\frac{125 \text{ C}}{30 \text{ sec}}$	
		-40°C - \ \ \	
		30 min.	
		Measure the test items after leaving the inductors	
		at room temperature and humidity for 2 hours.	
		r :	

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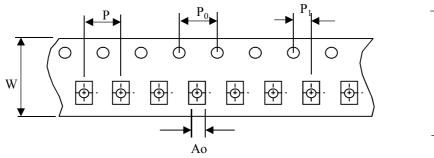


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7.Packaging

The packaging must be done not to receive any damage during transporting and storing.

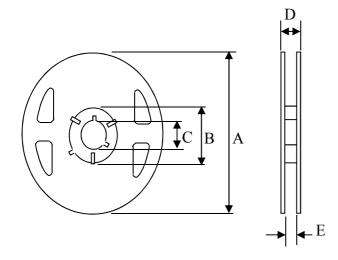
7-1 Tape dimensions



	ι	
(Dimension	s in mm; Tole	erance : ± 0.1)
1	**	

Symbol	W	P	P_0	P_1	Ao	Во	Ko	t
Dimension	8	4	4	2	2.5	2.85	2	0.22

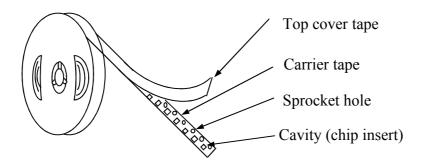
7-2 Reel dimensions



(Dimensions in mm)

Symbol	T
A	180
В	60
С	13
D	14.4
Е	8.4

7-3 Tapping figure



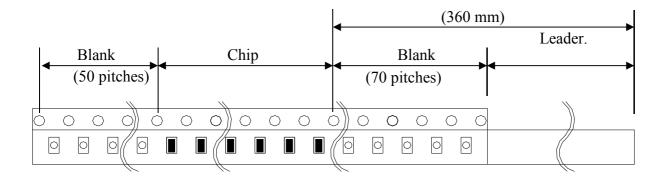
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7-4 Packaging Form

There shall not continuation more than two vacancies of the product.

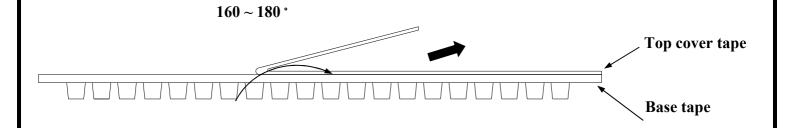


7-5 Cover Tape Peel Strength

The force for tearing off cover tape is 0.1~0.6(N) in the arrow direction at the following condition

Temperature : $5 \sim 35^{\circ}$ C Humidity : $45 \sim 85\%$

Atmospheric pressure: 860 ~ 1060 hpa



7-6 Packing Quantity

 $\phi 180 \ mm \ reel \ type$: 2,000 pcs./reel

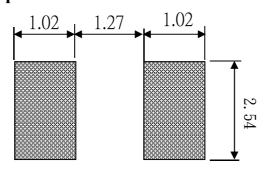
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8. Recommended Soldering Conditions (Please use this product by reflow soldering)

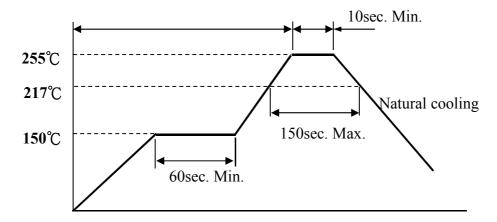
8-1 Recommended Footprint



Unit: mm

8-2 Recommended Reflow Pattern

Reflow: until two times



8-3 Iron Soldering

Use a solder iron of less than 30W when soldering ,do not allow the soldering iron tip directly touch the Ceramic body outside of terminal electrode.

5 seconds max. at 260° C.

9. Attention in Case of Using

In case of using product ,please avoid following matters:

Splashing water or salt water

Dew condenses

Toxic gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammor

Vibrations or shocks which exceed the specified condition

Please be careful for the stress to this product by board flexure or something after the mounting.

10. Others

10-1 Operating temperature range : Ceramic Series :- $40 \sim +125$ °C

10-2 Storage condition : Temperature 20°~25°C, Relative Humidity 40%~60%

10-3 Recommended wire wound inductors should be used within 6 months from the time of delivery.



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MHQ1005P5N1S MHQ1005P8N2J PE-51506NL PE-53601NL PE-53602NL PE-53630NL PE-53824SNLT PE-92100NL PG0434.801NLT
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