



# NANOCRYSTALLINE/AMORPHOUS/DUST CHOKE COILS

## ◆Coil Design Request

Date                      Month                      Year

Customer name																																			
Post name		TEL																																	
		FAX																																	
Person in charge name		E-mail																																	
Target price		Competitor																																	
Estimated usage	pcs per month(s)	year(s)	Start of mass production time      /      /      psc																																
<b>New Design Investigations</b>																																			
Type: <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Switching mode power supplies  <input type="checkbox"/> Harmonic counter-measure (Active filter)  <input type="checkbox"/> Others             </div> <div> <input type="checkbox"/> Normal mode line filter  <input type="checkbox"/> Common mode choke coil             </div> </div>																																			
Equipment Classification: Equipment Classification (Option)																																			
Electrical specification: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Rated output voltage</td> <td style="width: 10%; text-align: right;">[V]</td> <td style="width: 50%;">Conversion frequency</td> <td style="width: 10%; text-align: right;">[kHz]</td> </tr> <tr> <td>Output current</td> <td style="text-align: right;">[A]</td> <td>Ripple current</td> <td style="text-align: right;">[A p-p]</td> </tr> <tr> <td>Power output capacity</td> <td style="text-align: right;">[W]</td> <td>Peak current</td> <td style="text-align: right;">[A]</td> </tr> <tr> <td colspan="4">Inductance</td> </tr> <tr> <td>at Rated current</td> <td style="text-align: right;">[A]</td> <td></td> <td style="text-align: right;">[μH]</td> </tr> <tr> <td>at Peak current</td> <td style="text-align: right;">[A]</td> <td></td> <td style="text-align: right;">[μH]</td> </tr> <tr> <td>(Others)</td> <td style="text-align: right;">[A]</td> <td></td> <td style="text-align: right;">[μH]</td> </tr> </table>				Rated output voltage	[V]	Conversion frequency	[kHz]	Output current	[A]	Ripple current	[A p-p]	Power output capacity	[W]	Peak current	[A]	Inductance				at Rated current	[A]		[μH]	at Peak current	[A]		[μH]	(Others)	[A]		[μH]				
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Remarks (including special instructions on lead handling)																																			

## Notes on Use

- The indicated heat-resistant temperatures are the guaranteed temperatures including coil self-generated heat.
- In high-temperature,-humidity environment, There is a possibility to occur hydrolyze and insulation deterioration.
- Common mode coils, by the unbalanced current, it may cause a magnetic saturation.
- We do not acquire safety standards with coil only.
- Ensure that you do not repeatedly apply excessive force to the lead wires or repeatedly bend them.
- Do not bang the coil against hard objects. Scratch on the coating, possibly impairing performance.
- Contact NIPPON CHEMI-CON for how to clean the substrate on which the coil is mounted.
- When infra-acoustic frequency component is impressed, a beat sound sometimes occurs.
- The products described in this catalog have been designed and manufactured for general electronic devices, therefore, if you intend to use our products for purposes that may endanger or threaten human lives and cause damage to property if such electronic devices fail or malfunction, or have a significant impact on society, please contact our information counter in advance to consult with us before using our products.
- Response to the Substances of Concern
  - (1) Nippon Chemi-Con aims for developing products that meet laws and regulations concerning substances of concern.  
(Some products may contain regulated substances for exempted application.)  
Please contact us for more information about law-compliance status.
  - (2) According to the content of REACH handbook (Guidance on requirements for May 2008), our electronic components are "articles without any intended release". Therefore they are not applicable for Registration for EU REACH Regulation Article 7 (1).  
Reference: Electrolytic Condenser Investigation Society  
Study of REACH Regulation in EU about Electrolytic Capacitor (publicized on 13 March 2008)

## Inductor (Coil) AEC-Q200 Compliance

The Automotive Electronics Council (AEC) was originally established by major American automotive related manufactures. Today, it is composed of representatives from the manufacturing companies in automotive electronic devices and components. It standardizes the certification criteria and reliability tests for electronic components.

AEC-Q200 is the reliability test standard for approval of passive components in automotive applications. It specifies the test type, parameters, quantity, etc. for each component. The criteria used in reliability tests for "Inductors(Coils/Cores)" are described in this standard.

Pursuant to the customer's specific testing requirements, Chemi-Con submits the test results according to AEC-Q200 for Inductors(Coils/Cores) used in automotive applications on request.

An electronic component manufacturer cannot simply claim that their product is "AEC-Q200 Qualified". Instead, the manufacturer may claim their components as "Compliant", "Capable", "Available", etc.

Each component must be tested depending on the customer's "Qualification Test Plan" in order to claim AEC-Q200 Qualification.

The standard products listed in the catalog are designed for general electronic equipment. If you are considering using the products for automotive use, it may be necessary to change the specifications. Please contact our sales representative for more information.