



HXD Series

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size code	ESR (mΩ max./20°C, 100kHz)	Rated ripple current (mA _{rms} /105°C, 100kHz)	Part No.
16	47	E61	80	900	HHXD160ARA470ME61G
	82	F61	45	1,600	HHXD160□RA820MF61G
	100	F61	45	1,600	HHXD160□RA101MF61G
	150	F80	27	2,200	HHXD160□RA151MF80G
	180	F80	27	2,200	HHXD160□RA181MF80G
	270	HA0	22	2,500	HHXD160□RA271MHA0G
	330	HA0	22	2,500	HHXD160□RA331MHA0G
	470	JA0	18	2,600	HHXD160□RA471MJA0G
560	JA0	18	2,600	HHXD160□RA561MJA0G	
25	33	E61	80	900	HHXD250ARA330ME61G
	47	F61	50	1,300	HHXD250□RA470MF61G
	56	F61	50	1,300	HHXD250□RA560MF61G
	68	F80	30	2,000	HHXD250□RA680MF80G
	100	F80	30	2,000	HHXD250□RA101MF80G
	150	HA0	27	2,300	HHXD250□RA151MHA0G
	220	HA0	27	2,300	HHXD250□RA221MHA0G
	270	JA0	20	2,500	HHXD250□RA271MJA0G
	330	JA0	20	2,500	HHXD250□RA331MJA0G
	390	JA0	20	2,500	HHXD250□RA391MJA0G
35	22	E61	100	900	HHXD350ARA220ME61G
	27	F61	60	1,300	HHXD350□RA270MF61G
	47	F61	60	1,300	HHXD350□RA470MF61G
	47	F80	35	2,000	HHXD350□RA470MF80G
	68	F80	35	2,000	HHXD350□RA680MF80G
	100	HA0	27	2,300	HHXD350□RA101MHA0G
	150	HA0	27	2,300	HHXD350□RA151MHA0G
	150	JA0	20	2,500	HHXD350□RA151MJA0G
270	JA0	20	2,500	HHXD350□RA271MJA0G	
50	10	F61	80	1,100	HHXD500□RA100MF61G
	15	F80	40	1,600	HHXD500□RA150MF80G
	22	F61	80	1,100	HHXD500□RA220MF61G
	33	F80	40	1,600	HHXD500□RA330MF80G
	33	HA0	30	1,800	HHXD500□RA330MHA0G
	47	HA0	30	1,800	HHXD500□RA470MHA0G
	56	JA0	25	2,400	HHXD500□RA560MJA0G
	68	HA0	30	1,800	HHXD500□RA680MHA0G
	82	HA0	30	1,800	HHXD500□RA820MHA0G
	100	JA0	25	2,400	HHXD500□RA101MJA0G
120	JA0	25	2,400	HHXD500□RA121MJA0G	
63	6.8	F61	120	1,000	HHXD630□RA6R8MF61G
	10	F61	120	1,000	HHXD630□RA100MF61G
	10	F80	80	1,500	HHXD630□RA100MF80G
	22	F80	80	1,500	HHXD630□RA220MF80G
	22	HA0	40	1,600	HHXD630□RA220MHA0G
	33	HA0	40	1,600	HHXD630□RA330MHA0G
	33	JA0	30	2,400	HHXD630□RA330MJA0G
	47	HA0	40	1,600	HHXD630□RA470MHA0G
	56	JA0	30	2,400	HHXD630□RA560MJA0G
	82	JA0	30	2,400	HHXD630□RA820MJA0G
100	JA0	30	2,400	HHXD630□RA101MJA0G	
80	27	HA0	45	1,600	HHXD800□RA270MHA0G
	56	JA0	33	2,400	HHXD800□RA560MJA0G

□ : Enter the appropriate terminal code.

◆RATED RIPPLE CURRENT MULTIPLIERS

● Frequency Multipliers

Capacitance(μF)	Frequency(Hz)							
	120	1k	5k	10k	20k	30k	100k to 500k	
to 10	0.03	0.30	0.50	0.60	0.70	0.75	1.00	
15 to 33	0.07	0.30	0.50	0.60	0.70	0.75	1.00	
47 to 180	0.10	0.40	0.60	0.70	0.80	0.80	1.00	
220 to 560	0.13	0.45	0.65	0.75	0.85	0.85	1.00	



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.
Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.
- We strongly recommend our customers to purchase Nippon Chemi-Con products only through our official sales channels. We assume no responsibility for any defects or damages caused by using products purchased from outside our official sales channel or of counterfeit goods. In addition, we will ask the customer to pay the investigation cost for products purchased outside our official sales channel.
- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.
The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.
In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

[Part Numbering System](#)

[Part Numbering System \(Appendix\)](#)

[Standardization](#)

[Available Items by Manufacturing Locations](#)

[Environmental Measures](#)

[Technical Note](#)

[Precautions and Guidelines](#)

[Recommended Soldering Conditions](#)

[Taping, Lead-preforming, Terminal and Packaging Options](#)