U21C081335(TCC-T21615)
December,13 2021

NDB

Product Discontinuation Notice (EOL) of Aluminum Electrolytic Capacitors

To whom it may concern,

We would like to express our sincere gratitude for your continued support and inform you of the following discontinued production of Aluminum Electrolytic Capacitors.
Thank you for your understanding and cooperation in advance.

- Notice -

1. Scheduled End of Life (EOL) Products:
   Please refer to the attached document for the EOL products.

2. Background:
   Due to recent progress in technology or market changes, Demand for these scheduled EOL Products has been decreased. We are facing difficulty in securing stable supply of materials and maintenance the special production equipment.

3. EOL schedule:
   The last order date : October 2022
   The last shipping date : March 2023

If you have any questions or inquiries, please ask to our sales representatives.

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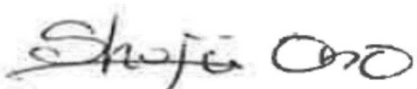
Sincerely yours,

Signature

Kaname Takahashi
Department Manager
Sales Promotion Dept.
Sales Headquarters
NIPPON CHEMI-CON CORPORATION



Signature

Shoji Ono
Department Manager
Business Management Dept.

NIPPON CHEMI-CON CORPORATI

EOL Products

■Conductive Polymer Aluminum Solid Capacitors

【Radial-Lead Type】

Applicable Products	Characteristics	Substitute Products
PS Series	Super Low ESR	PSE/PSF/PSG Series
PSA Series		

【SMD Type】

Applicable Products	Characteristics	Substitute Products
PXC Series	Low ESR	PXE Series

■Aluminum Electrolytic Capacitors

【SMD Type】

Applicable Products	Characteristics	Substitute Products
MV-BP Series	85℃ Bi-polar	MVE Series (6.3 to 100V)
MVK-BP Series	105℃ Bi-polar	
All Bi-polar items excluding above S	Bi-polar	Contact us separately
MVA Series	85℃, 2,000H	Contact us separately
MKB Series	105℃, 3,000H	Contact us separately
MVE Series (160WV to 450WV)	105℃, 1,000H～2,000H	Contact us separately
MVH Series (160WV to 450WV)	125℃, 1,000H～5,000H	Contact us separately
Discontinued Card board reel	D55-JA0	Plastic reel

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Discontinued Reel	Example Part number	⇛	Integrated Reel	Example Part number
DA/DB/RB	EMVE500A**DA**101MHA0G		RA	EMVE500A**RA**101MHA0G

【Radial-Lead Type】

Applicable Products	Characteristics	Substitute Products
FL, KMA, KRE, KZE, SRG, LXY Series	Hight 5L/7L/9L	MVE Series
SME-BP Series	85℃ Bi-polar	SMQ Series
KME-BP Series	105℃ Bi-polar	KMQ Series
SNX-BP Series	85℃ Bi-polar for Audio	ASG/AVH Series
KMG Series (160 to 450V)	105℃, General	Contact us separately
KMQ Series (160 to 450V)	105℃, General	Contact us separately
CLA Series	105℃, 5,000H	KWA/KWB Series
CLE Series	105℃	Contact us separately
GXE Series (160 to 450V)	125℃, Low Impedance	GXF Series
KXE Series	Long Life,	Contact us separately
KXF Series	Long Life, Smoothing	Contact us separately
SMG Series (160 to 450V)	85℃, General	Contact us separately
SMQ Series (160 to 450V)	85℃, General, Downsizing	Contact us separately

【Snap-in Type】

Applicable Products	Characteristics	Substitute Products
SMH Series（160 to 450V）	85℃	SMQ Series
KMH Series（160 to 450V）	105℃	KMR Series
KLM Series	105℃ Hight 15mm	Contact us separately
LXH Series	No sparks with DC	CHA Series

【Screw Terminal Type】

Applicable Products	Characteristics	Substitute Products
SME Series（160 to 250V）	85℃, 2,000H	LXA Series
RWG Series	85℃ High Ripple	RWH Series
RWY Series	85℃ High Ripple	
LWY Series	105℃, Long life	Contact us separately
LX Series	105℃, Long life	Contact us separately
RWE Series	85℃ High Ripple	Contact us separately
FTP Series	Ovalized can shape	Contact us separately

Vendor	Part #
UCC	EKMH401VQT152MB80U
UCC	EKMH401VSN471MA45U
UCC	EKMH401VSN101MQ25U
UCC	EKMH451VND391MB35U
UCC	EKMH451VND471MB40S
UCC	EKMH451VNN221MA30W
UCC	EKMH401VQT561MB40U
UCC	EKMH401VSN331MA35S
UCC	EKMH451VNN181MR35U
UCC	EKMH451VNN221MA30U
UCC	EKMH401VQT821MB50U
UCC	EKMH451VND471MB40U
UCC	EKMH451VNN101MQ30U
UCC	EKMH451VNN151MA25U
UCC	183-1675-034
UCC	EMVA350GRA102MLH0S
UCC	EMVA4R0ADA471MF80G
UCC	EMVA500ADA101MHA0G
UCC	EMVA500ADA220MF55G
UCC	EMVA500GDA102MLN0S
UCC	EMVA6R3ADA221MF55G
UCC	EMVA500ADA221MJA0G
UCC	EMVA500ADA100ME55G
UCC	EMVA500ADA470MF80G
UCC	EMVA6R3ADA101ME55G
UCC	EMVA350GDA102MLH0S
UCC	EMVA4R0ARA471MF80G
UCC	EMVA500ADA221MJA0G.
UCC	EMVA500ARA471MKG5S
UCC	EMVA6R3GDA103MMN0S
UCC	EKMH201VSN681MR30U
UCC	EKMH201VST272MB50U
UCC	EKMG251ELL220MK20S
UCC	EKMG251ELL4R7MHB5D
UCC	EKMA500ETD1R0MD07D
UCC	EKMA500ETD100MF07D
UCC	EKMA100ETD101MF07D
UCC	EKMA160ETD220ME07D
UCC	EKMA500ETC2R2MD07D
UCC	ESMH201VNN182MA45U
UCC	ESRG500ETD101MJ09S
UCC	E36D401LPN122TEE3Q
UCC	EKXG401ELL150MK20S
UCC	BMVK800GDA150MHA0G
UCC	BMVK500ADA3R3ME60G
UCC	APS-160ELL331MJC5S
UCC	APS-160ETD181MHB5S
UCC	APS-160EC3331MJC5S
UCC	APS-160EC3181MHB5S
UCC	APS-200ELL101MHB5S
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UCC	EKMH401LGB331MA60M
UCC	EKMH401VND122MA80U

UCC	EKMH401VNN102MA80U
UCC	EKMH401VNN121MQ30W
UCC	EKMH401VNN181MA25U
UCC	EKMH401VNN121MP35W
UCC	EKMH401VNN680MQ20U
UCC	EKMH401VNN221MQ45U
UCC	EKMH401VNN331MR45W
UCC	EKMH401VNN471MA45U
UCC	EKMH401VNN820MP30W
UCC	EKMH401VNN221MR35W
UCC	EKXG451ELL150MK25S
UCC	EKMH251VNN471MR30U
UCC	EKMH251VNN821MR45U
UCC	EKMH251VNN681MR40U
UCC	EKMH251VNN471MQ40U
UCC	EKMH251VQT332MB80U
UCC	ESMH401VNN271MB25U
UCC	ESMH401VNN681MA50U
UCC	ESMH451VND102MB63U
UCC	ESMH401VNN151MR25U
UCC	ESMH401VNN271MR35U
UCC	ESMH401VSN561MA45S
UCC	ESMH451VND152MB80U
UCC	EKXG201ELL220MJ20S
UCC	EKXF451ELL8R2MJ16S
UCC	EKXG161ELL101ML20S
UCC	EKXG161ELL330MJ20S
UCC	EKMH201VNN182MA50U
UCC	EKMH201VNN222MA63U
UCC	EKMH201VNN271MP25U
UCC	EKMH201VNN821MR35U
UCC	EKMH201VSN471MR25U
UCC	EKMH201VNN471MQ30U
UCC	EKMH201VQT272MB50U
UCC	ELXA160LGN153TA50U
UCC	ELXA501LGC272MDE5U
UCC	ELXA451LGC472MEE5U
UCC	ELXA451LGN122MCA5U
UCC	EKMH201VNN102MR45U
UCC	EKMH201VNN122MA40U
UCC	EKMH201VNN122MR50U
UCC	EKMH201VNN681MR30U
UCC	EKMH201VSN471MR25T
UCC	BMV-160ADA4R7MD55G
UCC	BMV-160ADA100ME55G
UCC	BMVK160ADA100ME60G
UCC	BMVK160ADA220MF60G
UCC	BMVK250ADA6R8ME60G
UCC	BMV-250ADA150MF55G
UCC	BMV-350ADA100MF55G
UCC	EMVA630ADA470MHA0G
UCC	EMVA630ARA331MKG5S
UCC	EMVA630ADA4R7ME55G
UCC	EMVA630ADA1R0MD55G

UCC	EMVA630ADA100MF55G
UCC	EMVA630ADA220MF80G
UCC	EMVA630GDA471MLH0S
UCC	EKMH201VSN681MQ40S
UCC	EKMH451VNN221MQ50W
UCC	EKMH451VNN221MQ50U
UCC	EKMH451VNN221MR35W
UCC	EKMH451VSN820MP35S
UCC	EKMH451VNN331MA40U
UCC	EKMH451VNN561MA63U
UCC	EKMH451VNN681MA63U
UCC	EKMH451VSN561MA63U
UCC	EKMH451VNN221MR40U
UCC	EKMH451VNN471MA50U
UCC	EKMH451VQT391MB35U
UCC	EKMH251VNN102MA40U
UCC	EKMH251VNN221MQ25U
UCC	EKMH251VNN181MP25U
UCC	EKMH251VNN221MP30U
UCC	ELXR451LGN222MDB5U
UCC	ELXR451LGN332MDF5U
UCC	ELXR451LGC822MFK0U
UCC	ELXR451LGN272MEB5U
UCC	EFL-350ELL6R8MD07D
UCC	EFL-500ELL3R3MD05D
UCC	EFL-350ELL4R7MD05D
UCC	EFL-500ELL100MF05D
UCC	EFL-500ELL220MH07D
UCC	EFL-500ELL4R7ME05D
UCC	EFL-500ELL220MH05G
UCC	EFL-500ELL4R7MD07D
UCC	EFL-500ELL150MF07D
UCC	EFL-500ELL6R8ME07D
UCC	EFL-6R3ELL151MF07D
UCC	EFL-6R3ELL330MD05D
UCC	EFL-6R3ELL271MH07D
UCC	EFL-6R3ELL560ME05D
UCC	EFL-6R3ELL820ME07D
UCC	EFL-6R3ELL470MD07D
UCC	EFL-6R3ELL221MH05G
UCC	APXC100ARA560ME60G
UCC	APXC100ARA820MF60G
UCC	APXC160ARA270ME60G
UCC	APXC160ARA820MH70G
UCC	APXC6R3ARA221MH70G
UCC	1500100049
UCC	EKMQ161VSN102MP40S
UCC	EKMQ161VSN152MR35S
UCC	EKMQ161VSN821MP35S
UCC	EKMQ161VSN222MR45S
UCC	EKMQ161VSN332MA50S
UCC	EKMQ161VSN182MQ50S
UCC	EKXE401ELL3R3MJC5S
UCC	EKXE401ELL3R9MH15D

UCC	EKXE201ELL180MJC5S
UCC	EKXE201ELL270MJ16S
UCC	EKXE251ELL100MH15D
UCC	EKXE401ELL1R0MHB5D
UCC	EKXE401ELL2R2MHB5D
UCC	EKXE201ELL150MJ16S
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UCC	EKXE401ELL5R6MJ16S
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UCC	EKXE401ELL6R8MJ16S
UCC	EKXE251ELL6R8MHB5D
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UCC	EMVA350ARA470MF60G
UCC	EMVA160ADA470ME55G
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UCC	EMVA250ADA471MJA0G
UCC	EMVA350ADA220ME55G
UCC	EMVA350ADA331MJA0G
UCC	ESMQ451VSN681MA50S
UCC	ESMQ451VSN471MR45
UCC	ESMQ401VSN821MA45S
UCC	ESMQ451VSN271MQ40S
UCC	ESMQ451VSN331MQ50S
UCC	ESMQ421VSN151MP30S
UCC	ESMQ451VSN391MA35S
UCC	EFL-100ELL330MD07D
UCC	EFL-100ELL101MF07D
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UCC	EFL-100ELL221MH07D
UCC	EFL-100ELL330ME05D
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UCC	APSA100ETD470MFA5S
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UCC	APSA100ELL101MFA5G
UCC	APSA100ELL470MFA5G
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UCC	ESMG451ELL3R3MJ16S
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UCC	EKMH161VNN681MR25U
UCC	EKMH161VQT472MB63U
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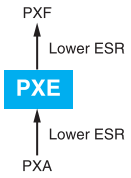
UCC	EKMQ201VSN391MP25S
UCC	EKMQ201VSN152MA30W
UCC	EKMQ201VSN222MA45S
UCC	EKMQ251VSN561MR25S
UCC	EKMQ201VNN102MR30W
UCC	EKMQ201VSN681MQ30S
UCC	EKMQ201VSN821MR25S
UCC	EKMQ281VSN152MA55S
UCC	EKMQ401VSN221MP45S
UCC	EKMQ251VSN471MQ30S
UCC	EKMQ401VSN151MP30S
UCC	EMVA100ADA220MD55G
UCC	EMVA100ADA101MF55G
UCC	EKMQ401ELL470MK25S
UCC	EMVA101ARA101MKE0S
UCC	EMVA160ADA221MF80G
UCC	EMVA100ADA471MHA0G
UCC	EMVA101ADA330MJA0G
UCC	EMVA160ADA101MF55G
UCC	EMVA160ADA331MHA0G
UCC	EKMQ401VSN101MP25S
UCC	EMVA160ADA220MD55G
UCC	EMVA100ADA470ME55G

NPCAP™-PXE Series

- Super low ESR, impedance and high heat resistance have been obtained by using conductive polymer as electrolyte.
  (ESR and rated ripple current values are improved from PXA series.)
- Rated voltage range : 2.5 to 16Vdc, Capacitance range : 33 to 2,700µF
- Suitable for DC-DC converters, voltage regulators and decoupling applications used on computer motherboards etc.
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- Halogen Free



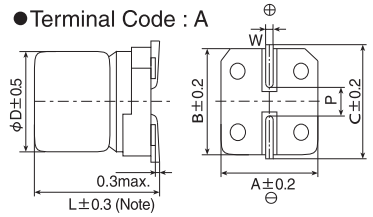
◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	-55 to +105℃
Rated Voltage Range	2.5 to 16Vdc
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)
Leakage Current *Note	Shall not exceed values shown in STANDARD RATINGS. (at 20℃ after 2 minutes)
Dissipation Factor (tan δ)	0.12 max. (at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25℃)/Z(+20℃)≦1.15 Z(-55℃)/Z(+20℃)≦1.25 (at 100kHz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 15,000 hours at 105℃.
	Appearance: No significant damage
	Capacitance change: ≦±20% of the initial value
	D.F. (tan δ): ≦150% of the initial specified value
	ESR: ≦150% of the initial specified value
	Leakage current: ≦The initial specified value
Bias Humidity	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjecting them to the DC rated voltage at 60℃, 90 to 95% RH for 1,000 hours.
	Appearance: No significant damage
	Capacitance change: ≦±20% of the initial value
	D.F. (tan δ): ≦150% of the initial specified value
	ESR: ≦150% of the initial specified value
	Leakage current: ≦The initial specified value
Surge Voltage	The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltage specified at 105℃ for 30 seconds through a protective resistor(R=1kΩ) and discharge for 5 minutes 30 seconds.
	Rated voltage (Vdc): 2.5 / 4.0 / 6.3 / 10 / 16
	Surge voltage (Vdc): 2.9 / 4.6 / 7.2 / 12 / 18
	Appearance: No significant damage
	Capacitance change: ≦±20% of the initial value
	D.F. (tan δ): ≦150% of the initial specified value
	ESR: ≦150% of the initial specified value
	Leakage current: ≦The initial specified value
Soldering Heat	The following specifications shall be satisfied when the solder temperature is reduced back to 20°C to measure dip resistance after soldering has been performed under the recommended soldering conditions.
	Appearance: No significant damage
	Capacitance value: Within the specified tolerance range
	D.F. (tan δ): ≦The initial specified value
	ESR: ≦The initial specified value
	Leakage current: ≦The initial specified value (Voltage treatment)

*Note : If any doubt arises, measure the leakage current after the following voltage treatment.
Voltage treatment : DC rated voltage is applied to the capacitors for 120 minutes at 105℃.

◆DIMENSIONS [mm]

●Terminal Code : A

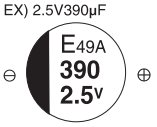


(Note) L±0.5 for HA0, HC0, JA0, JC0

Size Code	φD	L	A	B	C	W	P
E61	5	5.8	5.3	5.3	5.9	0.5 to 0.8	1.4
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
H70	8	6.7	8.3	8.3	9.0	0.7 to 1.1	3.1
H80	8	7.7	8.3	8.3	9.0	0.7 to 1.1	3.1
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
HC0	8	12.0	8.3	8.3	9.0	0.7 to 1.1	3.1
J80	10	7.7	10.3	10.3	11.0	0.7 to 1.1	4.5
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5
JC0	10	12.2	10.3	10.3	11.0	0.7 to 1.1	4.5

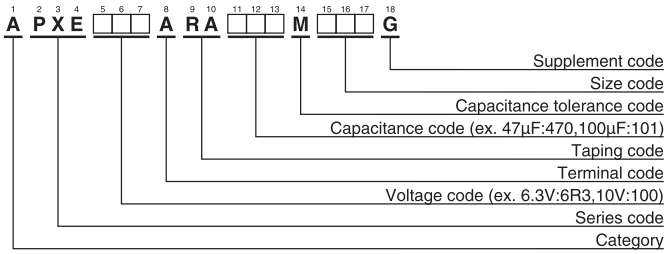
◆MARKING

EX) 2.5V390µF



NPCAP™-PXE Series

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (conductive polymer type)"

◆STANDARD RATINGS

WV (V_{dc})	Cap (µF)	Size code	Leakage current (µA max./after 2min.)	ESR (mΩ max./20℃, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
2.5	180	E61	90.0	21	2,670	APXE2R5ARA181ME61G
	390	F61	195	15	3,160	APXE2R5ARA391MF61G
	470	F80	235	13	3,600	APXE2R5ARA471MF80G
	560	F80	280	13	3,600	APXE2R5ARA561MF80G
	560	H70	280	13	4,100	APXE2R5ARA561MH70G
	680	H70	340	13	4,100	APXE2R5ARA681MH70G
	820	H80	410	12	4,260	APXE2R5ARA821MH80G
	820	HC0	410	9	5,400	APXE2R5ARA821MHC0G
	1,000	H80	500	12	4,260	APXE2R5ARA102MH80G
	1,200	J80	600	13	4,450	APXE2R5ARA122MJ80G
	1,500	HA0	750	10	5,220	APXE2R5ARA152MHA0G
	1,500	HC0	750	9	5,400	APXE2R5ARA152MHC0G
	2,200	JA0	1,100	10	5,500	APXE2R5ARA222MJA0G
	2,700	JC0	1,350	9	5,600	APXE2R5ARA272MJC0G
4	100	E61	80.0	22	2,610	APXE4R0ARA101ME61G
	150	E61	120	22	2,610	APXE4R0ARA151ME61G
	270	F61	216	15	3,160	APXE4R0ARA271MF61G
	330	F61	264	15	3,160	APXE4R0ARA331MF61G
	390	F80	312	14	3,470	APXE4R0ARA391MF80G
	470	H70	376	14	3,950	APXE4R0ARA471MH70G
	560	H70	448	14	3,950	APXE4R0ARA561MH70G
	680	H80	544	13	3,950	APXE4R0ARA681MH80G
	1,000	HA0	800	10	5,220	APXE4R0ARA102MHA0G
	1,000	J80	800	14	4,300	APXE4R0ARA102MJ80G
	1,200	HC0	960	9	5,400	APXE4R0ARA122MHC0G
	1,200	JA0	960	10	5,500	APXE4R0ARA122MJA0G
	1,500	JA0	1,200	10	5,500	APXE4R0ARA152MJA0G
	1,800	JA0	1,440	10	5,500	APXE4R0ARA182MJA0G
	1,800	JC0	1,440	9	5,600	APXE4R0ARA182MJC0G
6.3	100	E61	126	24	2,500	APXE6R3ARA101ME61G
	120	E61	151	24	2,500	APXE6R3ARA121ME61G
	220	F61	277	15	3,160	APXE6R3ARA221MF61G
	270	F80	340	14	3,470	APXE6R3ARA271MF80G
	330	F80	415	14	3,470	APXE6R3ARA331MF80G
	330	H70	415	14	3,950	APXE6R3ARA331MH70G
	390	H70	491	14	3,950	APXE6R3ARA391MH70G
	470	H80	592	13	3,950	APXE6R3ARA471MH80G
	820	HA0	1,030	12	4,770	APXE6R3ARA821MHA0G
	820	HC0	1,030	10	5,150	APXE6R3ARA821MHC0G
	820	J80	1,030	14	4,300	APXE6R3ARA821MJ80G
	1,200	JA0	1,510	12	5,025	APXE6R3ARA122MJA0G
	1,500	JA0	1,890	12	5,025	APXE6R3ARA152MJA0G
	1,500	JC0	1,890	10	5,500	APXE6R3ARA152MJC0G

Production of the products shown in [ ] is scheduled to be discontinued.

NPCAP™-PXE Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Size code	Leakage current (μA max./after 2min.)	ESR (mΩ max./20℃, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
10	47	E61	94.0	28	2,310	APXE100ARA470ME61G
	56	E61	112	28	2,310	APXE100ARA560ME61G
	68	E61	136	28	2,310	APXE100ARA680ME61G
	120	F61	240	25	2,530	APXE100ARA121MF61G
	150	F80	300	21	2,880	APXE100ARA151MF80G
	220	H70	440	21	3,220	APXE100ARA221MH70G
	270	H70	540	21	3,220	APXE100ARA271MH70G
	330	H80	660	19	3,390	APXE100ARA331MH80G
	390	HA0	780	17	4,000	APXE100ARA391MHA0G
	470	J80	940	19	3,800	APXE100ARA471MJ80G
	680	JA0	1,360	13	4,820	APXE100ARA681MJA0G
16	33	E61	105	35	2,070	APXE160ARA330ME61G
	39	E61	124	35	2,070	APXE160ARA390ME61G
	68	F61	217	28	2,390	APXE160ARA680MF61G
	82	F80	262	24	2,700	APXE160ARA820MF80G
	100	F80	320	24	2,700	APXE160ARA101MF80G
	100	H70	320	24	3,010	APXE160ARA101MH70G
	120	H70	384	24	3,010	APXE160ARA121MH70G
	150	H80	480	22	3,150	APXE160ARA151MH80G
	180	HA0	576	18	3,890	APXE160ARA181MHA0G
	220	HA0	704	18	3,890	APXE160ARA221MHA0G
	220	J80	704	22	3,450	APXE160ARA221MJ80G
	330	JA0	1,050	16	4,350	APXE160ARA331MJA0G

Production of the products shown in ▭ is scheduled to be discontinued.

◆RATED RIPPLE CURRENT MULTIPLIERS

❶Frequency Multipliers

Frequency(Hz)	120	1k	10k	50k	100k to 500k
SMD type	0.05	0.30	0.55	0.70	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.