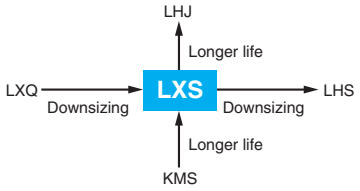
LXS Series

- For solar power generation
- Endurance with ripple current : 5,000 hours at 105℃
- Rated voltage range : 160 to 600V
- Downsized from LXQ series
- Non solvent resistant type
- RoHS2 Compliant



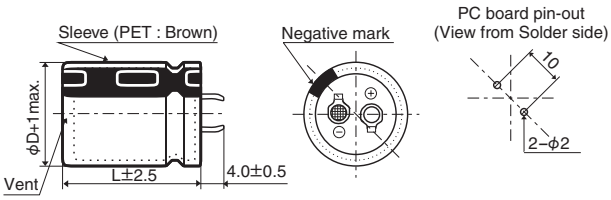


◆SPECIFICATIONS

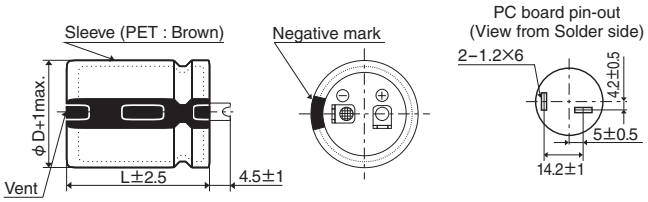
Items	Characteristics			
Category Temperature Range	-25 to +105℃			
Rated Voltage Range	160 to 600V_{dc}			
Capacitance Tolerance	±20% (M)			(at 20℃, 120Hz)
Leakage Current	I≦3√CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)			(at 20℃ after 5 minutes)
Dissipation Factor (tan δ)	Rated voltage (V_{dc})	160 to 400V	420 to 600V	
	tan δ (Max.)	0.15	0.20	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V_{dc})	160 to 400V	420 to 600V	
	Z(-25℃)/Z(+20℃)	4	8	(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 105℃.			
	Capacitance change	≦±20% of the initial value		
	D.F. (tan δ)	≦200% of the initial specified value (500V_{dc} : ≦ 250%, 550, 600V_{dc} : ≦ 300%)		
	Leakage current	≦The initial specified value		
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 105℃ without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.			
	Capacitance change	≦±15% of the initial value		
	D.F. (tan δ)	≦150% of the initial specified value		
	Leakage current	≦The initial specified value		

◆DIMENSIONS [mm]

●Terminal Code : VS (φ22 to φ35) : Standard

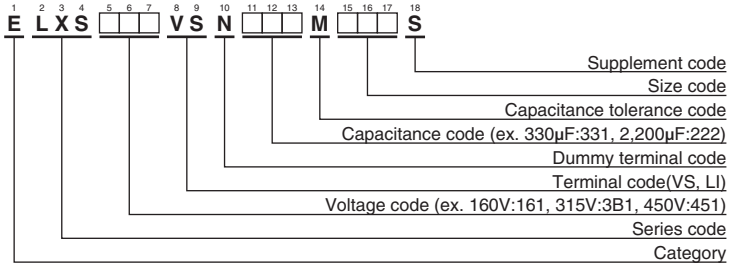


●Terminal Code : LI (φ30, φ35)



The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



Please refer to "Product code guide (snap-in type)"

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LXS Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
160	470	22 × 25	0.15	1.47	ELXS161VSN471MP25S
	680	22 × 30	0.15	1.86	ELXS161VSN681MP30S
	680	25.4 × 25	0.15	1.84	ELXS161VSN681MQ25S
	820	22 × 35	0.15	2.09	ELXS161VSN821MP35S
	820	25.4 × 30	0.15	2.08	ELXS161VSN821MQ30S
	1,000	22 × 40	0.15	2.35	ELXS161VSN102MP40S
	1,000	22 × 45	0.15	2.40	ELXS161VSN102MP45S
	1,000	25.4 × 35	0.15	2.40	ELXS161VSN102MQ35S
	1,000	30 × 25	0.15	2.50	ELXS161VSN102MR25S
	1,200	22 × 50	0.15	2.69	ELXS161VSN122MP50S
	1,200	25.4 × 40	0.15	2.68	ELXS161VSN122MQ40S
	1,200	30 × 30	0.15	2.77	ELXS161VSN122MR30S
	1,200	35 × 25	0.15	2.91	ELXS161VSN122MA25S
	1,500	25.4 × 45	0.15	3.05	ELXS161VSN152MQ45S
	1,500	30 × 35	0.15	3.17	ELXS161VSN152MR35S
	1,800	25.4 × 50	0.15	3.40	ELXS161VSN182MQ50S
	1,800	30 × 40	0.15	3.57	ELXS161VSN182MR40S
	1,800	35 × 30	0.15	3.62	ELXS161VSN182MA30S
	2,200	30 × 45	0.15	4.05	ELXS161VSN222MR45S
	2,200	30 × 50	0.15	4.11	ELXS161VSN222MR50S
	2,200	35 × 35	0.15	4.07	ELXS161VSN222MA35S
	2,700	35 × 40	0.15	4.67	ELXS161VSN272MA40S
	2,700	35 × 45	0.15	4.78	ELXS161VSN272MA45S
	3,300	35 × 50	0.15	5.40	ELXS161VSN332MA50S
180	390	22 × 25	0.15	1.34	ELXS181VSN391MP25S
	560	22 × 30	0.15	1.68	ELXS181VSN561MP30S
	560	25.4 × 25	0.15	1.67	ELXS181VSN561MQ25S
	680	22 × 35	0.15	1.90	ELXS181VSN681MP35S
	820	22 × 40	0.15	2.13	ELXS181VSN821MP40S
	820	25.4 × 30	0.15	2.08	ELXS181VSN821MQ30S
	820	25.4 × 35	0.15	2.17	ELXS181VSN821MQ35S
	820	30 × 25	0.15	2.26	ELXS181VSN821MR25S
	1,000	22 × 45	0.15	2.40	ELXS181VSN102MP45S
	1,000	22 × 50	0.15	2.45	ELXS181VSN102MP50S
	1,000	25.4 × 40	0.15	2.45	ELXS181VSN102MQ40S
	1,000	30 × 30	0.15	2.52	ELXS181VSN102MR30S
	1,000	35 × 25	0.15	2.66	ELXS181VSN102MA25S
	1,200	25.4 × 45	0.15	2.73	ELXS181VSN122MQ45S
	1,200	30 × 35	0.15	2.83	ELXS181VSN122MR35S
	1,500	25.4 × 50	0.15	3.10	ELXS181VSN152MQ50S
	1,500	30 × 40	0.15	3.26	ELXS181VSN152MR40S
	1,500	35 × 30	0.15	3.31	ELXS181VSN152MA30S
	1,800	30 × 45	0.15	3.66	ELXS181VSN182MR45S
	1,800	35 × 35	0.15	3.68	ELXS181VSN182MA35S
	2,200	30 × 50	0.15	4.11	ELXS181VSN222MR50S
	2,200	35 × 40	0.15	4.22	ELXS181VSN222MA40S
	2,200	35 × 45	0.15	4.32	ELXS181VSN222MA45S
	2,700	35 × 50	0.15	4.88	ELXS181VSN272MA50S
200	390	22 × 25	0.15	1.34	ELXS201VSN391MP25S
	470	22 × 30	0.15	1.54	ELXS201VSN471MP30S
	560	22 × 35	0.15	1.72	ELXS201VSN561MP35S
	560	25.4 × 25	0.15	1.67	ELXS201VSN561MQ25S
	680	22 × 40	0.15	1.94	ELXS201VSN681MP40S
	680	25.4 × 30	0.15	1.89	ELXS201VSN681MQ30S
	680	30 × 25	0.15	2.06	ELXS201VSN681MR25S
	820	22 × 45	0.15	2.17	ELXS201VSN821MP45S
	820	25.4 × 35	0.15	2.17	ELXS201VSN821MQ35S
	1,000	22 × 50	0.15	2.45	ELXS201VSN102MP50S
	1,000	25.4 × 40	0.15	2.45	ELXS201VSN102MQ40S
	1,000	30 × 30	0.15	2.52	ELXS201VSN102MR30S
	1,000	35 × 25	0.15	2.66	ELXS201VSN102MA25S
	1,200	25.4 × 45	0.15	2.73	ELXS201VSN122MQ45S
	1,200	25.4 × 50	0.15	2.78	ELXS201VSN122MQ50S
	1,200	30 × 35	0.15	2.83	ELXS201VSN122MR35S
	1,200	35 × 30	0.15	2.96	ELXS201VSN122MA30S
	1,500	30 × 40	0.15	3.26	ELXS201VSN152MR40S
	1,500	30 × 45	0.15	3.34	ELXS201VSN152MR45S
200	1,500	35 × 35	0.15	3.36	ELXS201VSN152MA35S
	1,800	30 × 50	0.15	3.72	ELXS201VSN182MR50S
	1,800	35 × 40	0.15	3.81	ELXS201VSN182MA40S
	2,200	35 × 45	0.15	4.32	ELXS201VSN222MA45S
	2,700	35 × 50	0.15	4.88	ELXS201VSN272MA50S
250	270	22 × 25	0.15	1.11	ELXS251VSN271MP25S
	330	22 × 30	0.15	1.29	ELXS251VSN331MP30S
	390	22 × 35	0.15	1.44	ELXS251VSN391MP35S
	390	25.4 × 25	0.15	1.40	ELXS251VSN391MQ25S
	470	22 × 40	0.15	1.61	ELXS251VSN471MP40S
	470	25.4 × 30	0.15	1.57	ELXS251VSN471MQ30S
	560	22 × 45	0.15	1.79	ELXS251VSN561MP45S
	560	25.4 × 35	0.15	1.79	ELXS251VSN561MQ35S
	560	30 × 25	0.15	1.87	ELXS251VSN561MR25S
	680	22 × 50	0.15	2.02	ELXS251VSN681MP50S
	680	25.4 × 40	0.15	2.02	ELXS251VSN681MQ40S
	680	30 × 30	0.15	2.08	ELXS251VSN681MR30S
	680	35 × 25	0.15	2.19	ELXS251VSN681MA25S
	820	25.4 × 45	0.15	2.26	ELXS251VSN821MQ45S
	820	25.4 × 50	0.15	2.29	ELXS251VSN821MQ50S
	820	30 × 35	0.15	2.34	ELXS251VSN821MR35S
	820	35 × 30	0.15	2.45	ELXS251VSN821MA30S
	1,000	30 × 40	0.15	2.66	ELXS251VSN102MR40S
	1,200	30 × 45	0.15	2.99	ELXS251VSN122MR45S
	1,200	30 × 50	0.15	3.04	ELXS251VSN122MR50S
	1,200	35 × 35	0.15	3.00	ELXS251VSN122MA35S
	1,200	35 × 40	0.15	3.11	ELXS251VSN122MA40S
	1,500	35 × 45	0.15	3.56	ELXS251VSN152MA45S
	1,800	35 × 50	0.15	3.98	ELXS251VSN182MA50S
315	180	22 × 25	0.15	0.95	ELXS3B1VSN181MP25S
	220	22 × 30	0.15	1.10	ELXS3B1VSN221MP30S
	220	25.4 × 25	0.15	1.10	ELXS3B1VSN221MQ25S
	270	22 × 35	0.15	1.24	ELXS3B1VSN271MP35S
	270	25.4 × 30	0.15	1.25	ELXS3B1VSN271MQ30S
	330	22 × 40	0.15	1.40	ELXS3B1VSN331MP40S
	330	30 × 25	0.15	1.43	ELXS3B1VSN331MR25S
	390	22 × 45	0.15	1.56	ELXS3B1VSN391MP45S
	390	22 × 50	0.15	1.59	ELXS3B1VSN391MP50S
	390	25.4 × 35	0.15	1.57	ELXS3B1VSN391MQ35S
	470	25.4 × 40	0.15	1.76	ELXS3B1VSN471MQ40S
	470	25.4 × 45	0.15	1.79	ELXS3B1VSN471MQ45S
	470	30 × 30	0.15	1.73	ELXS3B1VSN471MR30S
	470	35 × 25	0.15	1.82	ELXS3B1VSN471MA25S
	560	25.4 × 50	0.15	1.99	ELXS3B1VSN561MQ50S
	560	30 × 35	0.15	1.93	ELXS3B1VSN561MR35S
	560	35 × 30	0.15	2.02	ELXS3B1VSN561MA30S
	680	30 × 40	0.15	2.19	ELXS3B1VSN681MR40S
	680	30 × 45	0.15	2.25	ELXS3B1VSN681MR45S
	680	35 × 35	0.15	2.26	ELXS3B1VSN681MA35S
	820	30 × 50	0.15	2.51	ELXS3B1VSN821MR50S
	820	35 × 40	0.15	2.57	ELXS3B1VSN821MA40S
	1,000	35 × 45	0.15	2.91	ELXS3B1VSN102MA45S
	1,200	35 × 50	0.15	3.25	ELXS3B1VSN122MA50S
400	120	22 × 25	0.15	0.77	ELXS401VSN121MP25S
	150	22 × 30	0.15	0.90	ELXS401VSN151MP30S
	180	22 × 35	0.15	1.02	ELXS401VSN181MP35S
	180	25.4 × 25	0.15	0.99	ELXS401VSN181MQ25S
	220	22 × 40	0.15	1.15	ELXS401VSN221MP40S
	220	25.4 × 30	0.15	1.13	ELXS401VSN221MQ30S
	220	30 × 25	0.15	1.17	ELXS401VSN221MR25S
	270	22 × 45	0.15	1.29	ELXS401VSN271MP45S
	270	22 × 50	0.15	1.32	ELXS401VSN271MP50S
	270	25.4 × 35	0.15	1.30	ELXS401VSN271MQ35S
	330	25.4 × 40	0.15	1.47	ELXS401VSN331MQ40S
	330	30 × 30	0.15	1.45	ELXS401VSN331MR30S
	330	35 × 25	0.15	1.52	ELXS401VSN331MA25S
	390	25.4 × 45	0.15	1.63	ELXS401VSN391MQ45S

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LXS Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
400	390	25.4 × 50	0.15	1.66	ELXS401VSN391MQ50S
	390	30 × 35	0.15	1.61	ELXS401VSN391MR35S
	390	35 × 30	0.15	1.68	ELXS401VSN391MA30S
	470	30 × 40	0.15	1.82	ELXS401VSN471MR40S
	470	35 × 35	0.15	1.88	ELXS401VSN471MA35S
	560	30 × 45	0.15	2.04	ELXS401VSN561MR45S
	560	30 × 50	0.15	2.07	ELXS401VSN561MR50S
	560	35 × 40	0.15	2.13	ELXS401VSN561MA40S
	680	35 × 45	0.15	2.40	ELXS401VSN681MA45S
	820	35 × 50	0.15	2.69	ELXS401VSN821MA50S
420	100	22 × 25	0.20	0.70	ELXS421VSN101MP25S
	120	22 × 30	0.20	0.81	ELXS421VSN121MP30S
	120	25.4 × 25	0.20	0.81	ELXS421VSN121MQ25S
	150	22 × 35	0.20	0.93	ELXS421VSN151MP35S
	180	22 × 40	0.20	1.04	ELXS421VSN181MP40S
	180	25.4 × 30	0.20	1.02	ELXS421VSN181MQ30S
	180	30 × 25	0.20	1.06	ELXS421VSN181MR25S
	220	22 × 45	0.20	1.17	ELXS421VSN221MP45S
	220	22 × 50	0.20	1.20	ELXS421VSN221MP50S
	220	25.4 × 35	0.20	1.18	ELXS421VSN221MQ35S
	270	25.4 × 40	0.20	1.33	ELXS421VSN271MQ40S
	270	25.4 × 45	0.20	1.36	ELXS421VSN271MQ45S
	270	30 × 30	0.20	1.31	ELXS421VSN271MR30S
	270	35 × 25	0.20	1.38	ELXS421VSN271MA25S
	330	25.4 × 50	0.20	1.52	ELXS421VSN331MQ50S
	330	30 × 35	0.20	1.48	ELXS421VSN331MR35S
	330	35 × 30	0.20	1.55	ELXS421VSN331MA30S
	390	30 × 40	0.20	1.66	ELXS421VSN391MR40S
	390	30 × 45	0.20	1.70	ELXS421VSN391MR45S
	390	35 × 35	0.20	1.71	ELXS421VSN391MA35S
	470	30 × 50	0.20	1.90	ELXS421VSN471MR50S
	470	35 × 40	0.20	1.95	ELXS421VSN471MA40S
	560	35 × 45	0.20	2.17	ELXS421VSN561MA45S
	680	35 × 50	0.20	2.45	ELXS421VSN681MA50S
450	82	22 × 25	0.20	0.64	ELXS451VSN820MP25S
	120	22 × 30	0.20	0.81	ELXS451VSN121MP30S
	120	22 × 35	0.20	0.83	ELXS451VSN121MP35S
	120	25.4 × 25	0.20	0.81	ELXS451VSN121MQ25S
	150	22 × 40	0.20	0.94	ELXS451VSN151MP40S
	150	25.4 × 30	0.20	0.93	ELXS451VSN151MQ30S
	180	22 × 45	0.20	1.06	ELXS451VSN181MP45S
	180	25.4 × 35	0.20	1.06	ELXS451VSN181MQ35S
	180	30 × 25	0.20	1.06	ELXS451VSN181MR25S
	220	22 × 50	0.20	1.20	ELXS451VSN221MP50S
	220	25.4 × 40	0.20	1.20	ELXS451VSN221MQ40S

WV (V_{dc})	Cap (μF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105℃, 120Hz)	Part No.
450	220	30 × 30	0.20	1.18	ELXS451VSN221MR30S
	220	35 × 25	0.20	1.24	ELXS451VSN221MA25S
	270	25.4 × 45	0.20	1.36	ELXS451VSN271MQ45S
	270	25.4 × 50	0.20	1.38	ELXS451VSN271MQ50S
	270	30 × 35	0.20	1.34	ELXS451VSN271MR35S
	270	35 × 30	0.20	1.40	ELXS451VSN271MA30S
	330	30 × 40	0.20	1.52	ELXS451VSN331MR40S
	390	30 × 45	0.20	1.70	ELXS451VSN391MR45S
	390	30 × 50	0.20	1.73	ELXS451VSN391MR50S
	390	35 × 35	0.20	1.71	ELXS451VSN391MA35S
	470	35 × 40	0.20	1.95	ELXS451VSN471MA40S
	470	35 × 45	0.20	1.99	ELXS451VSN471MA45S
	560	35 × 50	0.20	2.22	ELXS451VSN561MA50S
500	100	30 × 25	0.20	0.82	ELXS501VSN101MR25S
	120	30 × 30	0.20	0.91	ELXS501VSN121MR30S
	120	35 × 25	0.20	0.88	ELXS501VSN121MA25S
	150	30 × 35	0.20	1.04	ELXS501VSN151MR35S
	180	30 × 40	0.20	1.17	ELXS501VSN181MR40S
	180	35 × 30	0.20	1.10	ELXS501VSN181MA30S
	220	30 × 45	0.20	1.33	ELXS501VSN221MR45S
	220	35 × 35	0.20	1.23	ELXS501VSN221MA35S
	270	30 × 50	0.20	1.50	ELXS501VSN271MR50S
	270	35 × 40	0.20	1.42	ELXS501VSN271MA40S
	330	35 × 45	0.20	1.60	ELXS501VSN331MA45S
	390	35 × 50	0.20	1.78	ELXS501VSN391MA50S
	470	35 × 60	0.20	2.03	ELXS501VSN471MA60S
550	120	30 × 30	0.20	0.91	ELXS551VSN121MR30S
	150	30 × 35	0.20	1.04	ELXS551VSN151MR35S
	180	30 × 40	0.20	1.17	ELXS551VSN181MR40S
	180	35 × 30	0.20	1.10	ELXS551VSN181MA30S
	220	30 × 50	0.20	1.35	ELXS551VSN221MR50S
	220	35 × 40	0.20	1.28	ELXS551VSN221MA40S
	270	35 × 45	0.20	1.45	ELXS551VSN271MA45S
	330	35 × 50	0.20	1.64	ELXS551VSN331MA50S
	390	35 × 60	0.20	1.85	ELXS551VSN391MA60S
600	120	30 × 40	0.20	0.96	ELXS601VSN121MR40S
	120	35 × 30	0.20	0.95	ELXS601VSN121MA30S
	150	30 × 45	0.20	1.10	ELXS601VSN151MR45S
	150	35 × 35	0.20	1.07	ELXS601VSN151MA35S
	180	30 × 50	0.20	1.22	ELXS601VSN181MR50S
	180	**35 × 40**	**0.20**	**1.22**	**ELXS601VSN181MA40S**
	220	**30 × 60**	**0.20**	**1.40**	**ELXS601VSN221MR60S**
	220	**35 × 45**	**0.20**	**1.38**	**ELXS601VSN221MA45S**
	270	**35 × 50**	**0.20**	**1.56**	**ELXS601VSN271MA50S**
	330	**35 × 60**	**0.20**	**1.79**	**ELXS601VSN331MA60S**

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Frequency(Hz)	50	120	300	1k	10k	50k
160 to 250V_{dc}	0.81	1.00	1.17	1.32	1.45	1.50
315 to 450V_{dc}	0.77	1.00	1.16	1.30	1.41	1.43
500 to 600V_{dc}	0.70	1.00	1.16	1.30	1.41	1.43

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.

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■ 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 and Packaging
Available Terminals for Snap-in and Screw Mount Type

Product specifications in this catalog are subject to change without notice.Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

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