



- The KMR series has been improved to have a higher capacitance and ripple current.
- Endurance with ripple current: 2,000 hours at 105°C
- Rated voltage range: 350 to 400V_{dc}, Capacitance range: 160 to 1,610µF
- For inverter control, switching power supplies
- Non solvent resistant type
- RoHS2 Compliant
- The logo mark printed on the sleeve will be changed.



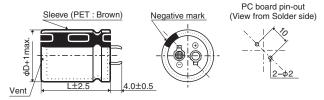


◆SPECIFICATIONS

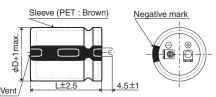
Items	Characteristics										
Category Temperature Range	-40 to +105℃										
Rated Voltage Range	350 to 400V _{dc}										
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)										
Leakage Current	I≦3√CV	I≦3√CV									
	Where, I: Max. leakage of	Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 5 minutes)									
Dissipation Factor	Rated voltage (V _{dc})	350 to 400V									
(tan δ)	tan δ (Max.)	0.15			(at 20℃, 120Hz)						
Low Temperature	Rated voltage (Vdc)	350 to 400V									
Characteristics	Z(-25°C)/Z(+20°C)	5									
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	20			(at 120Hz)						
Endurance				are restored to 20°C after subjected to DC vo	oltage with the rated						
	ripple current is applied (the peak voltage shall not exceed the rated voltage) for 2,000 hours at 105℃.										
	Capacitance change	≦±20% of the init	tial value								
	D.F. (tan δ)	≦200% of the initi	al specified value								
	Leakage current	≦The initial specif	ied value								
Shelf Life				restored to 20°C after exposing them for 1,000 h onditioned by applying voltage according to Item							
	Capacitance change	≦±15% of the init	tial value								
	D.F. (tan δ)	≦150% of the initi	al specified value								
	Leakage current	≦The initial specif	ied value								

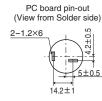
◆DIMENSIONS [mm]

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



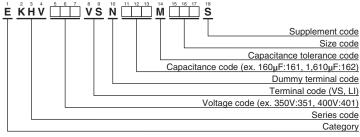
•Terminal Code : LI (φ30, φ35)





The standard design has no plastic disc.

◆PART NUMBERING SYSTEM



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





STANDARD RATINGS

240 22 x 30 0.15 1.73 EKHV351VSN241MF30S	WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
280		180	22 × 25	0.15	1.43	EKHV351VSN181MP25S		580	30 × 35	0.15	2.70	EKHV3H1VSN581MR35S
290		240	22 × 30	0.15	1.73	EKHV351VSN241MP30S		600	25.4 × 50	0.15	2.95	EKHV3H1VSN601MQ50S
330		260	25.4×25	0.15	1.72	EKHV351VSN261MQ25S		610	35 × 30	0.15	2.51	EKHV3H1VSN611MA30S
350 22 × 40 0.15 2.19 EKHV3S1VSN3S1MP2GS 390 30 × 25 0.15 2.24 EKHV3S1VSN3S1MR2GS 400 22 × 45 0.15 2.39 EKHV3S1VSN401MP4SS 400 22 × 45 0.15 2.25 EKHV3S1VSN401MP4SS 400 22 × 50 0.15 2.62 EKHV3S1VSN401MP4SS 400 22 × 50 0.15 2.62 EKHV3S1VSN41MQ0SS 500 35 × 25 0.15 2.24 EKHV3S1VSN45MP3MP4GS 510 22 × 55 0.15 2.24 EKHV3S1VSN45MP3MP4GS 510 22 × 55 0.15 2.24 EKHV3S1VSN51MP3GS 510 22 × 55 0.15 2.24 EKHV3S1VSN51MP3GS 510 22 × 55 0.15 2.24 EKHV3S1VSN51MP3GS 510 22 × 50 0.15 2.24 EKHV3S1VSN51MP3GS 520 25 × 4 × 50 0.15 2.37 EKHV3S1VSN51MP3GS 660 25 × 4 × 50 0.15 2.38 EKHV3S1VSN51MP3GS 660 25 × 4 × 50 0.15 2.27 EKHV3S1VSN51MP3GS 660 25 × 4 × 50 0.15 2.26 EKHV3S1VSN51MP3GS 660 25 × 4 × 50 0.15 2.26 EKHV3S1VSN51MP3GS 660 35 × 30 0.15 2.47 EKHV3S1VSN51MP3GS 660 35 × 30 0.15 2.47 EKHV3S1VSN51MP3GS 660 30 × 45 0.15 3.48 EKHV3S1VSN51MP3GS 660 35 × 30 0.15 2.47 EKHV3S1VSN51MP3GS 660 30 × 45 0.15 3.49 EKHV3S1VSN51MP3GS 660 35 × 30 0.15 2.47 EKHV3S1VSN51MP3GS 660 30 × 45 0.15 3.49 EKHV3S1VSN51MP3GS 660 30 × 45 0.15 3.40 EKHV3S1VSN31MP3GS 660 30 × 45		290	22 × 35	0.15	1.95	EKHV351VSN291MP35S		670	25.4 × 55	0.15	3.17	EKHV3H1VSN671MQ55S
390 30 × 25 0.15 2.14 EKHV3S1VSN931MR2SS 400 22 × 45 0.15 2.35 EKHV3SHVSN91IMR3SS 410 25.4 × 35 0.15 2.31 EKHV3STVSN41IMQ3SS 460 22 × 50 0.15 2.51 EKHV3STVSN41IMQ3SS 460 22 × 50 0.15 2.51 EKHV3STVSN41IMQ3SS 510 22 × 55 0.15 2.24 EKHV3STVSN94IMAQSS 510 22 × 55 0.15 2.24 EKHV3STVSN95IMA2SS 510 22 × 55 0.15 2.24 EKHV3STVSN501MA2SS 510 30 × 30 0.15 2.25 EKHV3STVSN501MA2SS 510 30 × 30 0.15 2.24 EKHV3STVSN501MA2SS 510 30 × 50 0.15 3.69 EKHV3STVSN501MA2SS 510 30 × 60 0.15 3.69 EKHV3STVSN502MA3SS 510 30 × 60 0.15 3.69 EKHV3STVSNT3TMR3SS 300 30 × 50		330	25.4×30	0.15	1.99	EKHV351VSN331MQ30S		690	30 × 40	0.15	3.03	EKHV3H1VSN691MR40S
## 400 22 × 45 0.15 2.39 EKHV351VSN401MP36S 460 22 × 50 0.15 2.62 EKHV351VSN461MP36S 910 30 × 50 0.15 3.22 EKHV3H1VSN911MAG0S 910 35 × 40 0.15 3.22 EKHV3H1VSN911MAG0S 910 35 × 40 0.15 3.22 EKHV3H1VSN911MAG0S 910 30 × 50 0.15 3.24 EKHV3H1VSN911MAG0S 910 30 × 50 0.15 3.24 EKHV3H1VSN911MAG0S 910 30 × 50 0.15 3.24 EKHV3H1VSN911MAG0S 910 30 × 50 0.15 3.29 EKHV3H1VSN911MAG0S 910 30 × 50 0.15 3.29 EKHV3H1VSN911MAG0S 910 30 × 50 0.15 3.90 EKHV3H1VSN12MAG0S 910 30 × 50 0.15 3.00 EKHV3SHVSNM6HMG0S 910 30 × 50 0.15 4.20 EKHV3H1VSN12MAG0S 910		350	22 × 40	0.15	2.19	EKHV351VSN351MP40S		740	25.4×60	0.15	3.39	EKHV3H1VSN741MQ60S
410		390	30 × 25	0.15	2.14	EKHV351VSN391MR25S		760	35 × 35	0.15	2.85	EKHV3H1VSN761MA35S
## 410		400	22 × 45	0.15	2.39	EKHV351VSN401MP45S	275	800	30 × 45	0.15	3.34	EKHV3H1VSN801MR45S
490 25.4 × 40 0.15 2.57 EKHV351VSN491MQ40S		410	25.4×35	0.15	2.31	EKHV351VSN411MQ35S	3/3	910	30 × 50	0.15	3.63	EKHV3H1VSN911MR50S
\$00 35 × 25 0.15 2.24 EKHV351VSNS01MA2SS 510 32 × 55 0.15 2.81 EKHV351VSNS01MA2SS 510 30 × 30 0.15 2.47 EKHV351VSNS11MP50S 560 25.4 × 45 0.15 2.81 EKHV351VSNS11MP30S 560 25.4 × 45 0.15 2.81 EKHV351VSNS11MP30S 570 22 × 60 0.15 3.02 EKHV351VSNS11MP30S 660 35 × 30 0.15 2.79 EKHV351VSNS11MP30S 660 35 × 30 0.15 2.81 EKHV351VSNS11MP30S 660 35 × 30 0.15 2.279 EKHV351VSNS11MP30S 660 35 × 30 0.15 2.279 EKHV351VSNS11MP30S 660 35 × 30 0.15 2.279 EKHV351VSNS11MP30S 720 25.4 × 50 0.15 3.05 EKHV351VSNS11MP30S 720 25.4 × 50 0.15 3.29 EKHV351VSNS11MP30S 720 25.4 × 55 0.15 3.29 EKHV351VSN71MQ5SS 720 25.4 × 55 0.15 3.29 EKHV351VSN71MQ6SS 720 25.4 × 50 0.15 3.41 EKHV351VSN71MQ6SS 720 25.4 × 50 0.15 3.41 EKHV351VSN71MQ6SS 720 25.4 × 50 0.15 3.42 EKHV351VSN71MQ6SS 720 25.4 × 50 0.15 3.43 EKHV351VSN71MQ6SS 720 25.4 × 50 0.15 3.43 EKHV351VSN81MA3SS 720 25.4 × 50 0.15 3.44 EKHV351VSN81MA3SS 720 25.4 × 50 0.15 3.45 EKHV351VSN81BMA3SS 720 25.4 × 50 0.15 3.45 EKHV351VSN112MR6SS 720 25.4 × 50 0.15 2.60 EKHV401VSN351MM2SS 720 25.4 × 50 0.15 3.45 EKHV351VSN112MR6SS 720 25.4 × 50 0.15 2.60 EKHV401VSN351MM3SS 720 25.4 × 50 0.15 2.60 EKHV401VSN31MM3SS 720 25.4 × 50 0.15 2.60 EKHV401VSN31MP3SS 720		460	22 × 50	0.15	2.62	EKHV351VSN461MP50S		910	35 × 40	0.15	3.22	EKHV3H1VSN911MA40S
510		490	25.4 × 40	0.15	2.57	EKHV351VSN491MQ40S		1,010	30 × 55	0.15	3.90	EKHV3H1VSN102MR55S
\$10 30 × 30 0.15 2.47 EKHV351VSN511MR30S 560 25.4 × 45 0.15 2.81 EKHV351VSN561MQ45S 1,350 35 × 55 0.15 4.20 EKHV3H1VSN122MA50S 1,350 35 × 55 0.15 4.20 EKHV3H1VSN122MA50S 1,350 35 × 56 0.15 4.20 EKHV3H1VSN122MA50S 1,550 3.5 × 60 0.15 4.21 EKHV3H1VSN122MA50S 1,550 3.5 × 60 0.15 4.21 EKHV3H1VSN122MA60S 1,550 3.5 × 60 0.15 4.25 EKHV3H1VSN122MA60S 1,550 3.5 × 50 0.15 4.20 EKHV3H1VSN122MA60S 1,550 3.5 × 60 0.15 4.32 EKHV401VSN221MP30S 1,550 3.5 × 50 0.15 3.29 EKHV351VSN641MA30S 720 25.4 × 55 0.15 3.29 EKHV351VSN741MR40S 790 25.4 × 55 0.15 3.29 EKHV351VSN741MR40S 790 25.4 × 60 0.15 3.50 EKHV351VSN741MR40S 80 30 × 45 0.15 3.50 EKHV351VSN741MR40S 80 30 × 45 0.15 3.74 EKHV351VSN841MA5S 970 30 × 50 0.15 3.74 EKHV351VSN971MR50S 1,190 30 × 55 0.15 4.05 EKHV351VSN122MR60S 1,290 30 × 55 0.15 4.05 EKHV351VSN122MR60S 1,290 30 × 55 0.15 4.05 EKHV351VSN122MR60S 1,290 35 × 50 0.15 4.32 EKHV351VSN122MR60S 1,290 35 × 50 0.15 4.32 EKHV351VSN122MR60S 1,290 35 × 50 0.15 4.05 EKHV351VSN122MR60S 2,200 22 × 30 0.15 1.66 EKHV311VSN321MP30S 2,200 22 × 30 0.15 1.66 EKHV311VSN321MP30S 2,200 22 × 30 0.15 1.60 EKHV311VSN321MP30S 3,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200 2,200		500	35 × 25	0.15	2.24	EKHV351VSN501MA25S		1,060	35 × 45	0.15	3.57	EKHV3H1VSN1A2MA45S
\$60		510	22 × 55	0.15	2.81	EKHV351VSN511MP55S		1,120	30 × 60	0.15	4.18	EKHV3H1VSN112MR60S
\$70		510	30 × 30	0.15	2.47	EKHV351VSN511MR30S		1,200	35 × 50	0.15	3.88	EKHV3H1VSN122MA50S
Section Sect		560	25.4 × 45	0.15	2.81	EKHV351VSN561MQ45S		1,350	35 × 55	0.15	4.20	EKHV3H1VSN1D2MA55S
620 30 × 35 0.15 2.79 EKHV351VSN621MR35S 660 25 × 25 0.15 0.15 2.62 EKHV351VSN621MR35S 200 22 × 30 0.15 1.58 EKHV401VSN221MQ25S 270 25 × 4 × 55 0.15 3.29 EKHV351VSN661MA30S 790 25 × 4 × 60 0.15 3.29 EKHV351VSN791MQ60S 790 25 × 4 × 60 0.15 3.50 EKHV351VSN791MQ60S 820 35 × 35 0.15 2.96 EKHV351VSN821MA35S 860 30 × 45 0.15 3.47 EKHV351VSN821MA35S 970 30 × 50 0.15 3.74 EKHV351VSN891MA40S 1,990 30 × 55 0.15 3.34 EKHV351VSN891MA40S 1,130 35 × 45 0.15 3.34 EKHV351VSN891MA40S 1,210 30 × 60 0.15 3.36 EKHV351VSN891MR35S 1,210 30 × 60 0.15 4.03 EKHV351VSN812MA55S 1,610 35 × 55 0.15 4.02 EKHV351VSN122MR60S 1,610 35 × 55 0.15 4.02 EKHV351VSN122MR60S 1,610 35 × 60 0.15 4.35 EKHV351VSN122MR60S 1,610 35 × 60 0.15 1.66 EKHV351VSN124MR35S 240 22 × 35 0.15 1.89 EKHV401VSN341MR30S 240 25 × 4 × 25 0.15 2.08 EKHV401VSN341MR30S 240 25 × 4 × 25 0.15 2.09 EKHV401VSN341MR30S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN124MR30S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN124MR30S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN124MR30S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN124MR30S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN124MR30S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN124MR30S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN124MR30S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN132MA50S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN132MA50S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN132MA50S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN132MA50S 240 25 × 4 × 25 0.15 2.09 EKHV351VSN132MA50S 25 × 4 × 25 0.15 2.09 EKHV351VSN32MA30S 240 25 × 4 × 25 0.15 2.00 EKHV351VSN32MA30S 25 × 25 0.15 2.00 EKHV351VSN32MA30S	0.50	570	22 × 60	0.15	3.02	EKHV351VSN571MP60S		1,500	35 × 60	0.15	4.51	EKHV3H1VSN152MA60S
660	350	620	30 × 35	0.15	2.79	EKHV351VSN621MR35S		160	22 × 25	0.15	1.35	EKHV401VSN161MP25S
660		640	25.4 × 50	0.15	3.05	EKHV351VSN641MQ50S		200	22 × 30	0.15	1.58	EKHV401VSN201MP30S
T40		660	35 × 30	0.15	2.62	EKHV351VSN661MA30S		220		0.15	1.58	EKHV401VSN221MQ25S
Page		720	25.4 × 55	0.15	3.29	EKHV351VSN721MQ55S		250	22 × 35	0.15	1.81	EKHV401VSN251MP35S
820 35 × 35		740	30 × 40	0.15	3.14	EKHV351VSN741MR40S		290	25.4 × 30	0.15	1.86	EKHV401VSN291MQ30S
860 30 × 45 0.15 3.47 EKHV351VSN861MR45S 970 30 × 50 0.15 3.74 EKHV351VSN861MR45S 980 35 × 40 0.15 3.34 EKHV351VSN971MR50S 1.090 30 × 55 0.15 4.05 EKHV351VSN112MR55S 1.130 35 × 45 0.15 3.69 EKHV351VSN112MR60S 1.210 30 × 60 0.15 4.34 EKHV351VSN122MR60S 1.210 30 × 60 0.15 4.02 EKHV351VSN122MR60S 1.450 35 × 55 0.15 4.02 EKHV351VSN122MA60S 1.610 35 × 60 0.15 4.67 EKHV351VSN132MA60S 1.610 35 × 60 0.15 4.67 EKHV351VSN162MA60S 1.610 35 × 60 0.15 4.67 EKHV351VSN162MA60S 1.610 35 × 60 0.15 1.66 EKHV3H1VSN171MP25S 220 22 × 30 0.15 1.66 EKHV3H1VSN21MP30S 224 0.25 × 4 × 30 0.15 1.65 EKHV3H1VSN21MP30S 270 22 × 35 0.15 1.88 EKHV3H1VSN21MP30S 330 22 × 40 0.15 2.09 EKHV3H1VSN31MM30S 330 22 × 40 0.15 2.09 EKHV3H1VSN31MP35S 330		790	25.4 × 60	0.15	3.50	EKHV351VSN791MQ60S		300	22 × 40	0.15	2.03	EKHV401VSN301MP40S
860 30 × 45 0.15 3.47 EKHV351VSN861MR45S 970 30 × 50 0.15 3.74 EKHV351VSN961MR40S 980 35 × 40 0.15 3.34 EKHV351VSN971MR50S 980 35 × 40 0.15 3.34 EKHV351VSN971MR50S 1,090 30 × 55 0.15 4.05 EKHV351VSN112MR5SS 1,130 35 × 45 0.15 3.69 EKHV351VSN112MR5SS 1,210 30 × 60 0.15 4.34 EKHV351VSN132MA50S 1,290 35 × 55 0.15 4.02 EKHV351VSN132MA50S 1,450 35 × 55 0.15 4.03 EKHV351VSN162MA60S 1,450 35 × 55 0.15 4.05 EKHV351VSN162MA60S 1,610 35 × 60 0.15 4.67 EKHV351VSN162MA60S 1,610 35 × 60 0.15 1.39 EKHV351VSN162MA60S 220 22 × 30 0.15 1.66 EKHV3H1VSN21MP30S 220 22 × 30 0.15 1.66 EKHV3H1VSN21MP30S 220 22 × 30 0.15 1.65 EKHV3H1VSN21MP30S 220 22 × 30 0.15 1.92 EKHV3H1VSN21MP30S 310 25 × 4 × 25 0.15 2.08 EKHV3H1VSN21MP30S 320 22 × 40 0.15 2.08 EKHV3H1VSN31MP30S 330 22 × 50 0.15 2.08 EKHV3H1VSN371MR25S 340 22 × 50 0.15 2.08 EKHV3H1VSN371MR25S 340 30 × 25 0.15 2.08 EKHV3H1VSN371MP30S 340 22 × 50 0.15 2.08 EKHV3H1VSN381MP30S 340 22 × 50 0.15 2.22 EKHV3H1VSN381MP30S 340 22 × 50 0.15 2.22 EKHV3H1VSN381MP30S 340 32 × 50 0.15 2.22 EKHV3H1VSN381MP30S 340 30 × 30 0.15 2.33 EKHV401VSN381MP30S 340 30 × 30 0.15 3.48 EKHV401VSN861MG40S 340 30 × 30 0.15 3.48 EKHV401VSN861MG40S 340 30 × 50 0.15 3.48 EKHV401VSN861MG40S 340 30 × 50 0.15 3.48 EKHV401VSN861MG40S 340 30 × 50 0.15 3.48 EKHV401VSN941MR30S 340 30 × 50		820	35 × 35	0.15	2.96	EKHV351VSN821MA35S		340	30 × 25	0.15	1.99	EKHV401VSN341MR25S
980 35 × 40 0.15 3.34 EKHV351VSN981MA40S 1,090 30 × 55 0.15 4.05 EKHV351VSN112MR55S 1,130 35 × 45 0.15 3.69 EKHV351VSN112MR60S 1,290 35 × 50 0.15 4.34 EKHV351VSN12MA60S 1,290 35 × 50 0.15 4.35 EKHV351VSN132MA60S 1,450 35 × 55 0.15 4.35 EKHV351VSN162MA60S 1,610 35 × 60 0.15 4.67 EKHV351VSN162MA60S 1,610 35 × 60 0.15 1.39 EKHV311VSN21MP30S 22 × 25 0.15 1.66 EKHV3H1VSN21MP30S 240 25 × 4 × 25 0.15 2.60 EKHV401VSN41MR35S 270 22 × 35 0.15 1.66 EKHV3H1VSN21MP30S 270 22 × 35 0.15 1.88 EKHV3H1VSN21MP30S 330 22 × 40 0.15 2.09 EKHV3H1VSN311MQ30S 330 22 × 40 0.15 2.09 EKHV3H1VSN321MP40S 330 22 × 45 0.15 2.33 EKHV3H1VSN31MR25S 330 22 × 45 0.15 2.33 EKHV3H1VSN31MR25S 330 22 × 50 0.15 2.33 EKHV3H1VSN31MR25S 430 22 × 50 0.15 2.33 EKHV3H1VSN31MR25S 430 22 × 50 0.15 2.33 EKHV3H1VSN31MR25S 430 22 × 50 0.15 2.22 EKHV3H1VSN31MR25S 430 22 × 50 0.15 2.37 EKHV3H1VSN31MR25S 440 30 × 30 0.15 2.73 EKHV401VSN841MR35S 540 30 × 35 0.15 2.22 EKHV401VSN841MR35S 540 30 × 35 0.15 2.22 EKHV401VSN841MR35S 540 30 × 35 0.15 2.22 EKHV401VSN841MR35S 540 30 × 35 0.15 2.33 EKHV401VSN841MR35S 540 30 × 35 0.15 2.34 EKHV401VSN841MR35S 540 30 × 35 0.15 2.35 EKHV401VSN841MR35S 540 30 × 35 0.15 2.32 EKHV401VSN841MR35S 540 30 × 35 0.15 2.33 EKHV401VSN841MR35S 540 30 × 35 0.15 2.33 EKHV401VSN841MR35S 540 30 × 35 0.15 3.22 EKHV401VSN841MR35S 540 30 × 35 0.15 3.32 EKHV401VSN841MR35S 540 30 × 35 0.15 3.32 EKHV401VSN841MR35S 540 30 × 35 0.15 3.32 EKHV401VSN841MR35S 540 30 × 35 0.15 3.34 EKHV401VSN841MR35S 540 30 × 35 0.15 3.34 EKHV401VSN841MR35S 540 30 × 35 0.15 3.76 EKHV401VSN841MR35S 540 30 × 35 0.15 3.76 E		860		0.15	3.47	EKHV351VSN861MR45S		350	22 × 45	0.15	2.23	
1,090 30 × 55 0.15 4.05 EKHV351VSN112MR55S 1,130 35 × 45 0.15 3.69 EKHV351VSN12BMA45S 1,210 30 × 60 0.15 4.04 EKHV351VSN12BMR60S 1,290 35 × 50 0.15 4.02 EKHV351VSN12BMA5SS 1,610 35 × 60 0.15 4.35 EKHV351VSN12BMA5SS 1,610 35 × 60 0.15 4.67 EKHV351VSN16BMA60S 1,450 35 × 50 0.15 4.67 EKHV351VSN16BMA60S 1,450 22 × 25 0.15 1.39 EKHV311VSN21MP30S 220 22 × 30 0.15 1.66 EKHV3H1VSN21MP30S 240 25 × 4 × 25 0.15 1.66 EKHV3H1VSN21MP30S 240 25 × 4 × 30 0.15 1.65 EKHV3H1VSN21MP30S 310 25 × 4 × 30 0.15 1.92 EKHV3H1VSN21MP40S 310 25 × 4 × 30 0.15 1.92 EKHV3H1VSN311MQ30S 330 22 × 40 0.15 2.08 EKHV3H1VSN31MP40S 330 30 × 25 0.15 2.08 EKHV3H1VSN31MP40S 330 25 × 4 × 30 0.15 2.22 EKHV3H1VSN31MP40S 340 22 × 50 0.15 2.23 EKHV3H1VSN31MP50S 430 30 × 30 0.15 2.92 EKHV401VSN641MR35S 440 24 × 50 0.15 2.60 EKHV401VSN491MP60S 540 30 × 35 0.15 2.60 EKHV401VSN51MR30S 550 25 × 4 × 30 0.15 1.92 EKHV3H1VSN321MP40S 370 30 × 25 0.15 2.08 EKHV3H1VSN321MP40S 380 25 × 45 0.15 2.29 EKHV3H1VSN331MP30S 430 30 × 40 0.15 2.92 EKHV401VSN641MR40S 440 22 × 50 0.15 2.60 EKHV401VSN491MR36S 550 25 × 4 × 50 0.15 2.60 EKHV401VSN51MA30S 550 25 × 4 × 50 0.15 2.60 EKHV401VSN51MA30S 550 25 × 4 × 50 0.15 2.83 EKHV401VSN51MA30S 550 25 × 50 0.15 2.92 EKHV401VSN51MA30S 570 35 × 35 0.15 2.92 EKHV401VSN641MA30S 640 30 × 40 0.15 2.92 EKHV401VSN641MA30S 640 30 × 40 0.15 3.25 EKHV401VSN641MA30S 640 30 × 40 0.15 3.25 EKHV401VSN641MA30S 640 30 × 50 0.15 3.48 EKHV401VSN641MA30S 640 30 × 50 0.15 3.48 EKHV401VSN841MA30S 640 30 × 50 0.15 3.48 EKHV401VSN841MA30S 640 30 × 50 0.15 3.48 EKHV401VSN841MA30S 640 30 × 50 0.15 3.48 EKHV401VSN841MA		970	30 × 50	0.15	3.74	EKHV351VSN971MR50S		350	25.4 × 35	0.15	2.13	EKHV401VSN351MQ35S
1,090 30 × 55 0.15 4.05 EKHV351VSN112MR55S 1,130 35 × 45 0.15 3.69 EKHV351VSN12BMA45S 1,210 30 × 60 0.15 4.34 EKHV351VSN12BMR60S 1,290 35 × 50 0.15 4.02 EKHV351VSN12BMA5SS 1,610 35 × 60 0.15 4.35 EKHV351VSN12BMA5SS 1,610 35 × 60 0.15 4.67 EKHV351VSN162MA60S 1,450 22 × 25 0.15 1.39 EKHV311VSN21MP30S 220 22 × 30 0.15 1.66 EKHV3H1VSN21MP30S 240 25 × 4 × 25 0.15 1.66 EKHV3H1VSN21MP30S 240 25 × 4 × 30 0.15 1.88 EKHV3H1VSN21MP30S 310 25 × 4 × 30 0.15 1.92 EKHV3H1VSN311MQ30S 320 22 × 40 0.15 2.09 EKHV3H1VSN311MP30S 330 22 × 45 0.15 2.08 EKHV3H1VSN31MP40S 330 30 × 25 0.15 2.08 EKHV3H1VSN31MP40S 340 22 × 50 0.15 2.23 EKHV3H1VSN31MP40S 340 30 × 30 0.15 2.92 EKHV401VSN641MR30S 340 22 × 50 0.15 2.33 EKHV3H1VSN31MP50S 430 32 × 50 0.15 2.33 EKHV3H1VSN31MP50S 430 32 × 50 0.15 2.37 EKHV3H1VSN341MP50S 440 30 × 30 0.15 2.92 EKHV401VSN51MA30S 450 25 × 4 × 30 0.15 0.15 0.16 0.15 0.15 0.15 0.15 340 22 × 50 0.15 0.15 0.15 0.15 0.15 0.15 0.15 460 30 × 40 0.15 0.15 0.15 0.15 0.15 0.15 470 30 × 30 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 480 22 × 50 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 470 30 × 30 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 480 22 × 50 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 480 22 × 50 0.15 0.1												
1,130 35 × 45 0.15 3.69		1.090	30 × 55	0.15		EKHV351VSN112MR55S		420	25.4 × 40	0.15	2.38	EKHV401VSN421MQ40S
1,210								430		0.15		
1,290 35 × 50 0.15 4.02 EKHV351VSN132MA50S 1,450 35 × 55 0.15 4.35 EKHV351VSN1E2MA55S 1,610 35 × 60 0.15 4.67 EKHV351VSN162MA60S 1,610 35 × 60 0.15 4.67 EKHV351VSN162MA60S 1,610 35 × 60 0.15 1.39 EKHV3H1VSN171MP26S 220 22 × 30 0.15 1.66 EKHV3H1VSN221MP30S 240 25.4 × 25 0.15 1.66 EKHV3H1VSN241MQ25S 270 22 × 35 0.15 1.88 EKHV3H1VSN271MP30S 310 25.4 × 30 0.15 1.92 EKHV3H1VSN311MQ30S 320 22 × 40 0.15 2.09 EKHV3H1VSN321MP40S 370 30 × 25 0.15 2.08 EKHV3H1VSN371MR25S 380 25.4 × 35 0.15 2.22 EKHV3H1VSN381MQ35S 430 22 × 50 0.15 2.53 EKHV3H1VSN311MP30S 430 22 × 50 0.15 2.53 EKHV3H1VSN311MP30S 430 22 × 50 0.15 2.53 EKHV3H1VSN311MP30S 440 30 × 30 0.15 2.80 EKHV401VSN491MP60S 540 30 × 35 0.15 2.60 EKHV401VSN51MQ50S 550 25.4 × 50 0.15 2.60 EKHV401VSN51MQ50S 570 30 × 35 0.15 2.43 EKHV401VSN521MQ50S 640 30 × 30 0.15 2.92 EKHV401VSN641MR40S 640 30 × 40 0.15 2.73 EKHV401VSN641MR50S 640 30 × 40 0.15 2.73 EKHV401VSN641MR50S 640 30 × 40 0.15 2.73 EKHV401VSN741MR45S 640 30 × 50 0.15 3.22 EKHV401VSN641MR50S 640 30 × 50 0.15 3.22 EKHV401VSN641MR50S 640 30 × 50 0.15 3.22 EKHV401VSN641MR50S 640 30 × 40 0.15 3.22 EKHV401VSN641MR50S 640 30 × 40 0.15 3.22 EKHV401VSN641MR50S 640 30 × 40 0.15 3.25 EKHV401VSN641MR50S 640 30 × 40 0.15 3.22 EKHV401VSN641MR50S 640 30 × 40 0.15 3.25 EKHV401VSN641MR50S 640 30 × 40 0.15 3.25 EKHV401VSN641MR50S 640 30 × 40 0.15 3.22 EKHV401VSN641MR50S 640 30								440				
1,450		1.290		0.15	4.02			440	30 × 30	0.15	2.29	
1,610												
170		,						490				
220 22 × 30 0.15 1.66 EKHV3H1VSN221MP30S 240 25.4 × 25 0.15 1.65 EKHV3H1VSN221MP30S 270 22 × 35 0.15 1.88 EKHV3H1VSN271MP35S 310 25.4 × 30 0.15 1.92 EKHV3H1VSN311MQ30S 320 22 × 40 0.15 2.09 EKHV3H1VSN321MP40S 370 30 × 25 0.15 2.08 EKHV3H1VSN371MR25S 380 25.4 × 35 0.15 2.22 EKHV3H1VSN381MP45S 430 22 × 50 0.15 2.53 EKHV3H1VSN381MQ35S 450 25.4 × 40 0.15 2.37 EKHV3H1VSN431MP40S 470 30 × 30 0.15 2.37 EKHV3H1VSN471MR30S 480 22 × 55 0.15 2.72 EKHV3H1VSN481MP55S 520 25.4 × 45 0.15 2.70 EKHV3H1VSN481MQ45S 520 25.4 × 45 0.15 2.70 EKHV3H1VSN481MQ45S 520 25.4 × 45 0.15 2.70 EKHV3H1VSN521MQ45S							400	540				
240 25.4 × 25 0.15 1.65 EKHV3H1VSN241MQ25S 270 22 × 35 0.15 1.88 EKHV3H1VSN271MP35S 310 25.4 × 30 0.15 1.92 EKHV3H1VSN311MQ30S 320 22 × 40 0.15 2.09 EKHV3H1VSN321MP40S 370 30 × 25 0.15 2.08 EKHV3H1VSN371MR25S 380 22 × 45 0.15 2.33 EKHV3H1VSN381MP45S 380 25.4 × 35 0.15 2.22 EKHV3H1VSN381MQ35S 430 22 × 50 0.15 2.53 EKHV3H1VSN381MQ35S 450 25.4 × 40 0.15 2.37 EKHV3H1VSN431MP50S 470 30 × 30 0.15 2.37 EKHV3H1VSN471MR30S 470 35 × 25 0.15 2.37 EKHV3H1VSN471MR30S 480 22 × 55 0.15 2.72 EKHV3H1VSN471MA25S 520 25.4 × 45 0.15 2.70 EKHV3H1VSN481MP55S 520 25.4 × 45 0.15 2.70 EKHV3H1VSN481MP55S 1,250 35 × 55 0.15 4.04 EKHV401VSN12MA5S		220	22 × 30		1.66			550		0.15	2.83	
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310 25.4 × 30 0.15 1.92 EKHV3H1VSN311MQ30S 320 22 × 40 0.15 2.09 EKHV3H1VSN321MP40S 370 30 × 25 0.15 2.08 EKHV3H1VSN371MR25S 380 25.4 × 35 0.15 2.23 EKHV3H1VSN381MP45S 380 25.4 × 35 0.15 2.22 EKHV3H1VSN381MQ35S 430 22 × 50 0.15 2.53 EKHV3H1VSN381MQ35S 450 25.4 × 40 0.15 2.37 EKHV3H1VSN451MQ40S 470 30 × 30 0.15 2.37 EKHV3H1VSN471MR30S 470 35 × 25 0.15 2.17 EKHV3H1VSN471MR25S 480 22 × 55 0.15 2.72 EKHV3H1VSN481MP50S 520 25.4 × 45 0.15 2.70 EKHV3H1VSN481MQ45S 520 25.4 × 45 0.15 2.70 EKHV3H1VSN481MQ45S		270						620				
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520 25.4×45 0.15 2.70 EKHV3H1VSN521MQ45S 1,250 35×55 0.15 4.04 EKHV401VSN1C2MA55S												
		530	22 × 60	0.15	2.70	EKHV3H1VSN531MP60S		1,230	35 × 60	0.15	4.32	EKHV401VSN142MA60S





HIGHER RIPPLE CURRENT RATINGS

<u> </u>											
WV (V _{dc})	Cap (µF)	Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.	WV Cap		Case size φD×L(mm)	tan δ	Rated ripple current (Arms/ 105°C, 120Hz)	Part No.
	350	30 × 25	0.15	2.50	EKHV351VSN351MR25S		840	30 × 50	0.15	4.31	EKHV3H1VSN841MR50S
	460	30 × 30	0.15	2.90	EKHV351VSN461MR30S		870	35 × 40	0.15	4.17	EKHV3H1VSN871MA40S
	480	35 × 25	0.15	2.90	EKHV351VSN481MA25S		940	30×55	0.15	4.65	EKHV3H1VSN941MR55S
	570	30 × 35	0.15	3.31	EKHV351VSN571MR35S	375	1,010	35 × 45	0.15	4.61	EKHV3H1VSN102MA45S
	630	35 × 30	0.15	3.38	EKHV351VSN631MA30S	3/5	1,050	30 × 60	0.15	5.01	EKHV3H1VSN1A2MR60S
	680	30 × 40	0.15	3.72	EKHV351VSN681MR40S		1,150	35 × 50	0.15	5.03	EKHV3H1VSN1B2MA50S
	780	35 × 35	0.15	3.82	EKHV351VSN781MA35S		1,290	35 × 55	0.15	5.43	EKHV3H1VSN132MA55S
350	790	30 × 45	0.15	4.11	EKHV351VSN791MR45S		1,430	35 × 60	0.15	5.83	EKHV3H1VSN1E2MA60S
350	900	30 × 50	0.15	4.46	EKHV351VSN901MR50S		300	30 × 25	0.15	2.32	EKHV401VSN301MR25S
	930	35 × 40	0.15	4.31	EKHV351VSN931MA40S		400	30 × 30	0.15	2.71	EKHV401VSN401MR30S
	1,010	30 × 55	0.15	4.82	EKHV351VSN102MR55S		410	35 × 25	0.15	2.68	EKHV401VSN411MA25S
	1,080	35 × 45	0.15	4.77	EKHV351VSN112MA45S		490	30 × 35	0.15	3.07	EKHV401VSN491MR35S
	1,120	30×60	0.15	5.17	EKHV351VSN112MR60S		540	35 × 30	0.15	3.13	EKHV401VSN541MA30S
	1,230	35 × 50	0.15	5.20	EKHV351VSN1C2MA50S		590	30 × 40	0.15	3.46	EKHV401VSN591MR40S
	1,390	35 × 55	0.15	5.64	EKHV351VSN142MA55S		670	35 × 35	0.15	3.54	EKHV401VSN671MA35S
	1,540	35 × 60	0.15	6.05	EKHV351VSN1F2MA60S	400	680	30 × 45	0.15	3.81	EKHV401VSN681MR45S
	330	30 × 25	0.15	2.43	EKHV3H1VSN331MR25S	400	780	30 × 50	0.15	4.15	EKHV401VSN781MR50S
	430	30 × 30	0.15	2.81	EKHV3H1VSN431MR30S		800	35 × 40	0.15	4.00	EKHV401VSN801MA40S
	450	35 × 25	0.15	2.81	EKHV3H1VSN451MA25S		870	30 × 55	0.15	4.47	EKHV401VSN871MR55S
375	530	30 × 35	0.15	3.19	EKHV3H1VSN531MR35S		930	35 × 45	0.15	4.43	EKHV401VSN931MA45S
	590	35 × 30	0.15	3.27	EKHV3H1VSN591MA30S		970	30×60	0.15	4.81	EKHV401VSN971MR60S
	630	30 × 40	0.15	3.58	EKHV3H1VSN631MR40S		1,060	35 × 50	0.15	4.82	EKHV401VSN1A2MA50S
	730	35 × 35	0.15	3.70	EKHV3H1VSN731MA35S		1,190	35 × 55	0.15	5.22	EKHV401VSN122MA55S
	740	30 × 45	0.15	3.98	EKHV3H1VSN741MR45S		1,320	35 × 60	0.15	5.60	EKHV401VSN132MA60S

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Frequency(Hz)	50 120		300	1k	10k	50k
350 to 450V _{dc}	0.70	1.00	1.10	1.17	1.25	1.31

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.



- 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