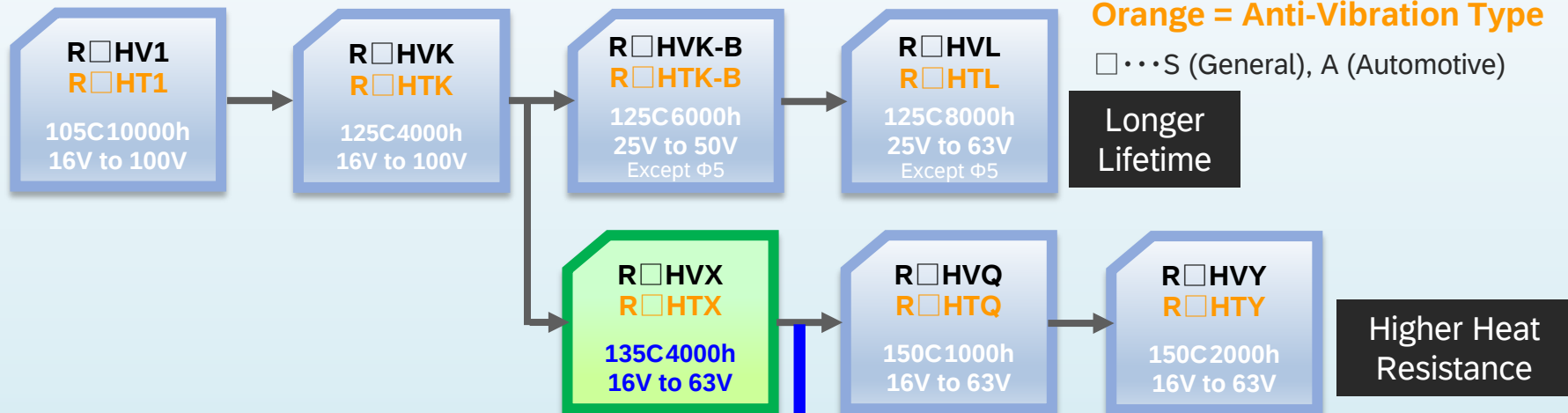


Products Lineup

Longer Life / Higher Temperature Resistance



-J Series: in MP
-K Series: New

Higher Ripple Current

Larger
Capacitance

R□HVX-J / **R□HTX-J**
135C4000h
25V to 63V

For HVX:
Higher Ripple Current
Larger Capacitance

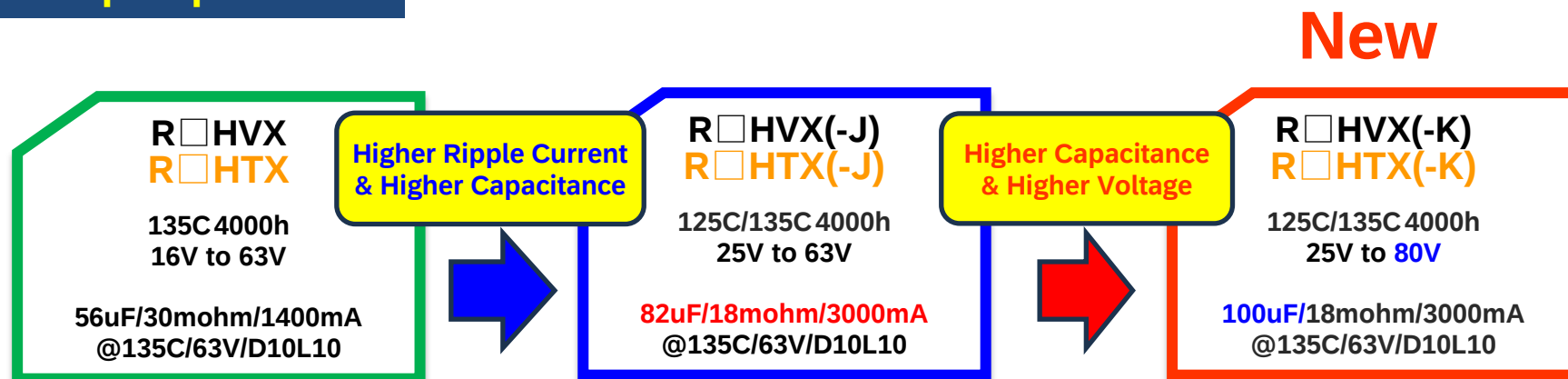
NEW

R□HVX-K / **R□HTX-K**
135C4000h
25V to 80V

For -J Series:
Higher Capacitance
Added 80V Rating
Available in D12.5x16.5

Introduction: -J Series and -K Series

Lineup Expansion



-J series
Enhanced ripple current
capability

- K series**
- Enables downsizing compared with conventional products
 - Industry-leading maximum capacitance (see table below) and ripple current (6A)

□...S(General), A (Automotive)



Black = Standard Type

Orange = Anti-Vibration Type

Maximum
Capacitance
Examples

RV	Case size	Max cap.
63V	Φ10×16.5	220uF
	Φ12.5×16.5	330uF
80V	Φ10×16.5	120uF
	Φ12.5×16.5	180uF

Case Size Lineup

Case Size	TAIYO YUDEN (Japan)	Company A (Japan)	Company B (Japan)	Company C (Japan)	Company D (Local)
Φ5x5.8	✓	✓		✓	
Φ6.3x5.8	✓	✓	✓	✓	✓
Φ6.3x7.7	✓	✓	✓	✓	✓
Φ8x8.7	✓				
Φ8x10	✓	✓	✓	✓	✓
Φ10x8.7	✓				
Φ10x10	✓	✓	✓	✓	✓
Φ10x12.5	✓	✓	✓	✓	✓
Φ10x16.5	✓	✓	✓	✓	✓
Φ12.5x13.5	✓			Industry Standard Maximum Case Size	
Φ12.5x16.5	✓				

TAIYO YUDEN offers the widest range of case sizes in the industry.
Only TAIYO YUDEN offers Φ12.5x13.5 & Φ12.5x16.5 case sizes.

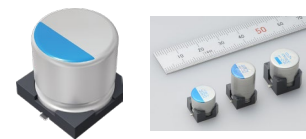
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New Automotive HVX Series: -J and -K Standard Types

Example P/N;

RA HVX□□□M□□□□□00□J□ -J series

RA HVX□□□M□□□□□00□K□ -K series



Ta = Ambient Temperature 135°C / 125°C, 4000 h

RV	25V			35V			50V			63V			80V		
Cap [μF]	Case Size [mm]	ESR [mΩ]	Ripple (125°C Ta) [mA]	Case Size [mm]	ESR [mΩ]	Ripple (125°C Ta) [mA]	Case Size [mm]	ESR [mΩ]	Ripple (125°C Ta) [mA]	Case Size [mm]	ESR [mΩ]	Ripple (125°C Ta) [mA]	Case Size [mm]	ESR [mΩ]	Ripple (125°C Ta) [mA]
10															
18															
22										Φ6.3×7.7	45	1800			
33													Φ8×10	25	3000
47										Φ8×10	23	3300			
56										Φ8×10	23	3300			
68							Φ8×10	19	3600				Φ10×10	23	3500
82										Φ10×10	18	4000	Φ10×12.5	23	3900
100				Φ6.3×7.7	30	2200				Φ10×10	18	4000			
120							Φ10×10	16	4300	Φ10×12.5	18	4400	Φ12.5×13.5	20	4700
150	Φ6.3×7.7	25	2200	Φ8×10	18.5	3800				Φ12.5×13.5	16	5000			
180										Φ12.5×13.5	16	5000			
220	Φ8×10	18.5	3900	Φ8×10	19	3800	Φ10×12.5	16	4800						
270				Φ10×10	15	4600	Φ12.5×13.5	15	5300						
330	Φ10×10	15	4600												
	Φ8×10	19	3900												
390				Φ10×10	15	4600									
470				Φ10×12.5	15	4800									
560				Φ10×12.5	15	4800									
680	Φ10×12.5	15	4800	Φ12.5×13.5	13	5700									
	Φ10×10	15	4600												
820	Φ10×12.5	15	4800	Φ12.5×13.5	13	5700									
1000	Φ12.5×13.5	12	5700												
1200	Φ12.5×13.5	12	5700												

-J series
 -K series **New**

For the allowable ripple current at Ta = 135°C for 135°C-rated products, please refer to the website.
<https://ds.yuden.co.jp/TYCOMPAS/ut/specificationSearcher?cid=AE&SR0-AE=ECHP&SR2=LM%2CMP&u=M>

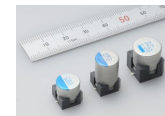
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New Automotive HVX Series: -J and -K Anti-Vibration Types

Example P/N:

RA HTX□□□M□□□□□00□J□ -J series

RA HTX□□□M□□□□□00□K□ -K series



Ta = Ambient Temperature 135°C / 125°C, 4000 h

RV	25V			35V			50V			63V			80V		
Cap [μF]	Case Size [mm]	ESR [mΩ]	Ripple (125°C Ta) [mA]	Case Size [mm]	ESR [mΩ]	Ripple (125°C Ta) [mA]	Case Size [mm]	ESR [mΩ]	Ripple (125°C Ta) [mA]	Case Size [mm]	ESR [mΩ]	Ripple (125°C Ta) [mA]	Case Size [mm]	ESR [mΩ]	Ripple (125°C Ta) [mA]
10															
18															
22										Φ6.3×7.7	45	1800			
33													Φ8×10	25	3000
47										Φ8×10	23	3300			
56										Φ8×10	23	3300			
68							Φ8×10	19	3600				Φ10×10	23	3500
82										Φ10×10	18	4000	Φ10×12.5	23	3900
100				Φ6.3×7.7	30	2200				Φ10×10	18	4000			
120							Φ10×10	16	4300	Φ10×12.5	18	4400	Φ10×16.5	18	4700
													Φ12.5×13.5	20	4700
150	Φ6.3×7.7	25	2200	Φ8×10	18.5	3800				Φ10×16.5	15	5200			
										Φ12.5×13.5	16	5000			
180										Φ10×16.5	15	5200	Φ12.5×16.5	16	5500
										Φ12.5×13.5	16	5000			
220	Φ8×10	18.5	3900	Φ8×10	19	3800	Φ10×12.5	16	4800	Φ10×16.5	15	5200			
270				Φ10×10	15	4600	Φ10×16.5	15	5300	Φ12.5×16.5	13	6000			
							Φ12.5×13.5	15	5300						
330	Φ8×10	19	3900							Φ12.5×16.5	13	6000			
	Φ10×10	15	4600												
390				Φ10×10	15	4600									
470				Φ10×12.5	15	4800									
560				Φ10×12.5	15	4800									
680	Φ10×10	15	4600	Φ10×16.5	13	5700									
	Φ10×12.5	15	4800	Φ12.5×13.5	13	5700									
820	Φ10×12.5	15	4800	Φ10×16.5	13	5700									
				Φ12.5×13.5	13	5700									
1000	Φ10×16.5	12	5700												
	Φ12.5×13.5	12	5700												
1200	Φ10×16.5	12	5700	Φ12.5×16.5	11	6500									
	Φ12.5×13.5	12	5700												
1500															
1800	Φ12.5×16.5	11	6500												

■ -J series

■ -K series

New

For the allowable ripple current at Ta = 135°C for 135°C-rated products, please refer to the website.

<https://ds.yuden.co.jp/TYCOMPAS/ut/specificationSearcher?cid=AE&SR0-AE=ECHP&SR2=LM%2CMP&u=M>

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Downsizing from Conventional Products with the -K Series

The -K Series enables downsizing compared with conventional products (prior to the -J Series).

Examples of downsizing

(4000 h products / Ambient temperature: <125°C)

-K Series

Red text indicates downsizing capability

RV	P/N	Max Temp. [°C]	Cap. [uF]	ESR [mΩ]	Ripple [mArms]	Ripple current Ta [°C]	Size D [mm]	Size L [mm]
25V	RAHVK821M1TGL5005E	125	820	15	4000	125	12.5	13.5
	RAHVX821M1TFK5002KX	135	820	15	4800	125	10	12.5
	RAHVK681M1TFK5002EX	125	680	18	3000	125	10	12.5
	RAHVX681M1TFH0002KX	135	680	15	4600	125	10	10
	RAHVK331M1TFH0002EX	125	330	20	2000	125	10	10
	RAHVX331M1TEH0002K	135	330	19	3900	125	8	10
35V	RAHVK561M1GGL5005E	125	560	15	4000	125	12.5	13.5
	RAHVX561M1GFK5002KX	135	560	15	4800	125	10	12.5
	RAHVK391M1GFK5002EX	125	390	18	3000	125	10	12.5
	RAHVX391M1GFH0002KX	135	390	15	4600	125	10	10
63V	RAHVK101M4EFK5002EX	125	100	26	2000	125	10	12.5
	RAHVX101M4EFH0002KX	135	100	18	4000	125	10	10
	RAHVK560M4EFH0002EX	125	56	30	1400	125	10	10
	RAHVX560M4EEH0002K	135	56	23	3300	125	8	10
80V	RAHVK330M1RFH0002EX	125	33	36	1200	125	10	10
	RAHVX330M1REH0002K	135	33	25	3000	125	8	10

Improved ESR and Ripple Current Performance Even After Downsizing

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