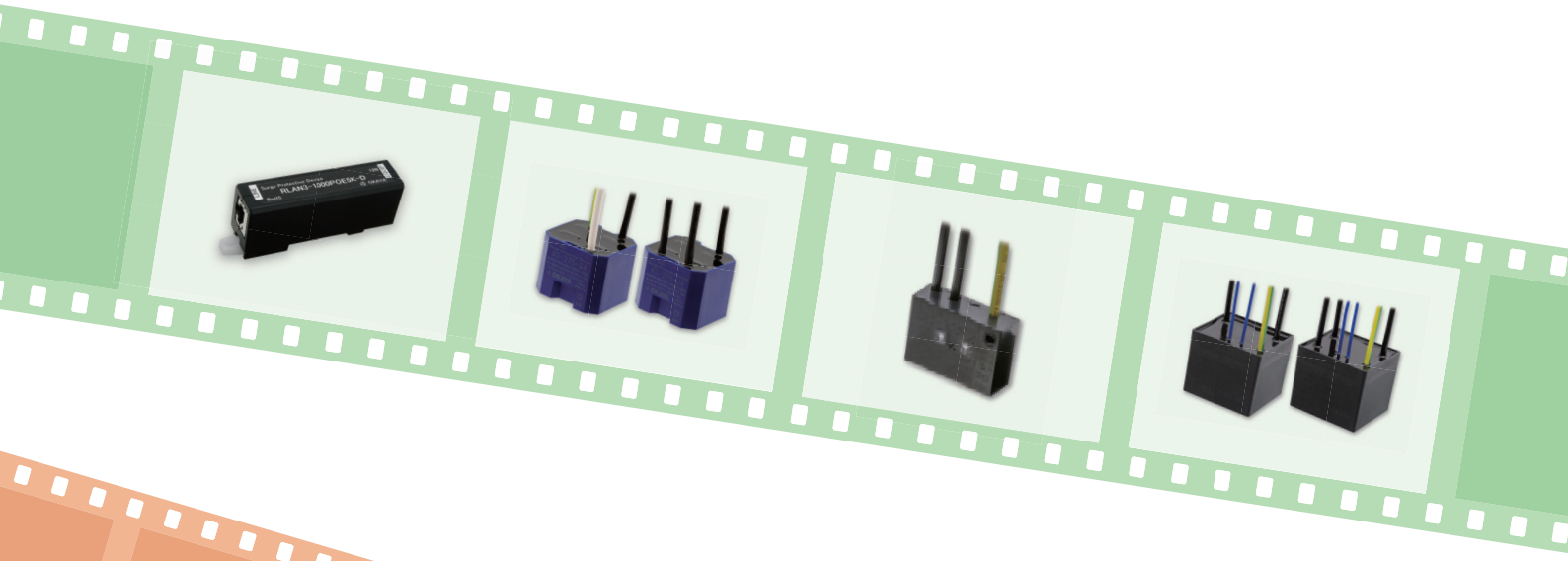
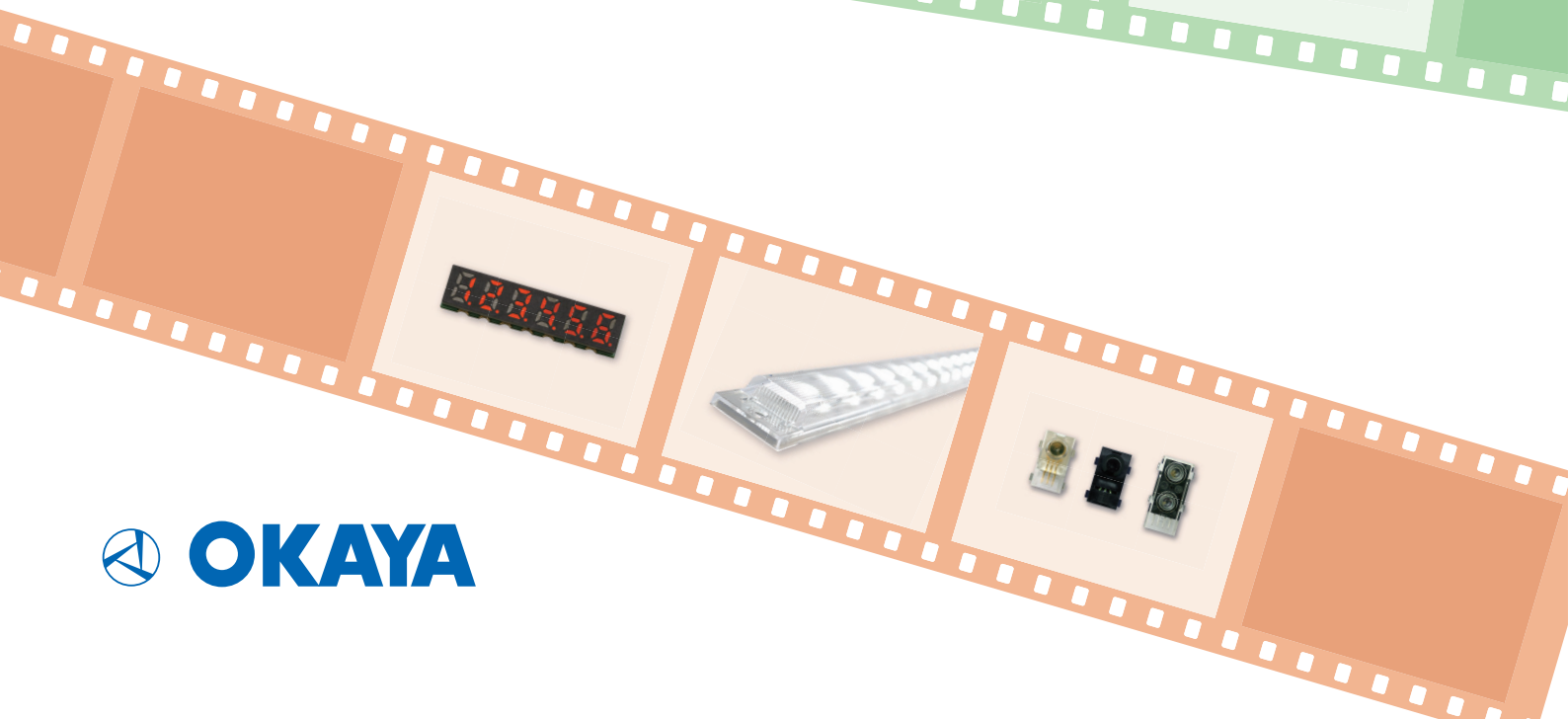
OKAYA ELECTRIC SEARCH

ELECTRONIC COMPONENTS & DEVICES





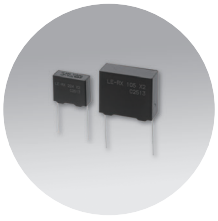
OKAYA

Proven Reliable Since 1946

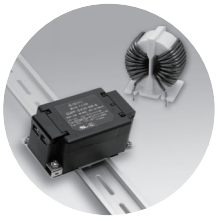
OKAYA

Okaya is a world wide company that designs, manufactures and markets Electrical Noise Suppression Components and LED products for use in the Electrical and Electronics industry. Okaya is proud to furnish the finest in electrical and electronic support products.

Okaya's ISO9000 and ISO14001 Certifications assure that only the very best quality is acceptable for the products we represent. Okaya is honored to invite you to browse through our menu of available products.

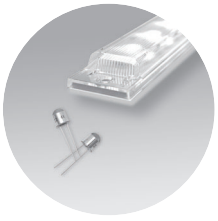


FILM CAPACITORS



NOISE FILTERS

SURGE PROTECTIVE DEVICES



OPTICAL PARTS

Company Name:
OKAYA ELECTRIC INDUSTRIES CO.,LTD.
Foundated: **April 11, 1939**
Established: **June 1, 1946**
Business Description:
Manufacturing and selling electric components
Manufacturing and selling electric equipments

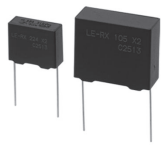
RoHS
2011/65/EU

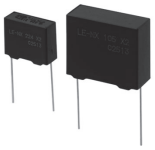
FILM CAPACITORS

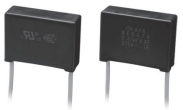
OKAYA

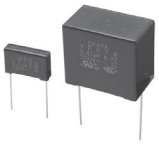
■ AC FILM CAPACITOR

Suitable for reducing external noise and high frequency noise such as in brush motors. The outer case gives the capacitor reliability and safety.

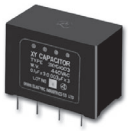

LE-RX


LE-NX


REB


YF


3XYG


3XYG-TY

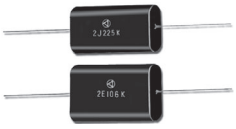
Model Number	Capacitance (μF)	Rated Voltage (V AC)	Class	Test Voltage 50/60Hz 60sec.		Safety Standard						Features	Lead Type *3
				Line to Line (V AC)	Line to Case (V AC)	UL	CSA(cUL)	SEMKO	ENEC	CQC	KC		
LE-RX	0.1~3.3	310	X2	1,000	2,120	○	○	-	○	○	○	*Variable lead spacing and lead diameter with same capacitance*2*	②
LE-NX	0.047~3.3	310	X2	1,000	2,120	○	○	-	○	○	○	*Small size*	②
LE-MX	0.1~2.2	310	X2	1,000	2,100	○	○	-	○	○	○	*Small and multipurpose type and operating temp is up to 110°C*	②
LE-K, LE-K-M	1.5~10	300	X2	1,250*1	2,100	○	○	-	○	-	○	*Small package but high capacitance for 300V AC rated voltage*	②
XH	0.001~0.0068	500	-	2,200	2,200	-	-	-	-	-	-	*Rated Voltage 500V AC*	②
	0.01~0.47	500	X2	2,000	2,200	○	○	○	-	-	-		
REB	0.047~1.0	275	X2	1,250	2,000	○	○	-	○	-	-	*RE-L Series Flexible wire leads*	①
XE-Z	0.001~0.0068	X1:275,Y2:250	X1·Y2	2,000	2,100	○	○	-	○	-	-	*EU certification: 310V AC*	②
	0.01~1.0	275	X1	1,250	2,100	○	○	-	○	○	○	*EU certification: 310V AC*	②
YF	0.001~0.47	300	Y2	2,000	2,000	○	○	-	○	-	-	*Compliance with Class Y2 with rated voltage 300V AC and 110°C*	②
3XYG	X 0.1μF+Y3,000pF	440	-	2,000	2,000	-	-	-	-	-	-	*Three phase Capacitor with combined X and Y. Flexible wire leads type*	①
3XYG-TY	X 0.1μF+Y3,000pF	440	-	2,000	2,000	-	-	-	-	-	-	*Three phase Capacitor with combined X and Y. Flexible wire leads type*	②

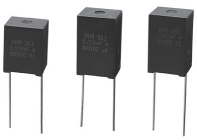
*1 C≥4.7μF:1,770V DC *2 85°C, 85% RH, 310 V AC, 1000 hours; Certified to ANNEX I Grade IIIB *3 ①Flex PVC wire ②Bare wire

■ DC FILM CAPACITOR


AFV


C7NP


C1NP


HHR


AFX


AFC

Model Number	Rated Voltage	Capacitance (μF)	Tolerance	Operating Temperature Topr (°C)	Features
AFV	450V DC	0.47/1.0/2.2	±10%	-40~+85	*Suitable for active filter and snubbers for high frequency electronic circuit. The resin case is small-footprint type*
	630V DC	0.47/1.0/2.2	±10%	-40~+85	
C7NP	250V DC	0.1~22.0	±5%, ±10%	-40~+85	*Suitable for high frequency snubbers electronic circuit*
	400V DC	0.047~10.0	±5%, ±10%	-40~+85	
	630V DC	0.01~6.8	5%, 10%	-40~+85	
	1,250V DC	0.0047~1.0	5%, 10%	-40~+85	
	1,600V DC	0.001~0.047	5%, 10%	-40~+85	
HCP-S	450V DC	0.047~1.0	10%	-40~+85	*Suitable for high frequency snubbers electronic circuit, small multipurpose type*
	630V DC	0.01~2.2	10%	-40~+85	
	1,000V DC	0.1/0.47/1.0	10%	-40~+85	
	1,250V DC	0.01~0.47	10%	-40~+85	
C1NP	250V DC	2.2~12.0	5%, 10%	-40~+85	*Suitable for high frequency snubbers electronic circuit, reeling type*
	400V DC	1.2~4.7	5%, 10%	-40~+85	
	630V DC	0.82~3.3	5%, 10%	-40~+85	
	1,250V DC	1.0~4.7	5%, 10%	-40~+85	
HHC	400V DC	0.033~0.22	5%, 10%	-40~+105	*Suitable for high frequency resonant circuit with high current, small-footprint*
	630V DC	0.01~0.22	5%, 10%	-40~+105	
	1,250V DC	0.001~0.033	5%, 10%	-40~+105	
HHR	800V DC	0.01~0.068	3%	-40~+105	*Suitable for high frequency resonant circuit with high current, small-footprint*
AFX	450V DC	0.47~2.2	10%	-40~+105*4	*Suitable for Active filters(PFC) circuit, small-footprint, lowering vibration*
AFS	450V DC	0.47~4.7	10%	-40~+105*4	*Suitable for Active filters(PFC) circuit, small-footprint*
AFC	450V DC, 630V DC	0.47~4.7	10%	-40~+105*5	*Suitable for Active filters(PFC) circuit*
AFP	450V DC, 630V DC	0.1~2.2	10%	-55~+100	*Suitable for Active filters(PFC) circuit*

*4 Between 85°C and 105°C, the product can be used by reducing the voltage.Between 85°C and 105°C, the product can be used by reducing the voltage.
*5 The 630V rated model can be used by reducing the voltage. Please contact us separately for further details.

CAT.No. 0087S2606-1.0E

■ SPARK QUENCHER

A combination of a high-reliability film capacitor and resistor that prevents the occurrence of arcing and sparks at contact points.

S

CR

AU

CRE

CRH

3CRE

Model Number	Rated Voltage (V AC)	Class	Capacitance (μF)	Test Voltage 50/60Hz 60sec.		Safety Standard						Features	Lead Type *2
				Line to Line (V AC)	Line to Case (V AC)	UL	cUL	VDE	SEMKO	ENEC	CQC		
S	150	-	0.033~0.5	375	1,500	-	-	-	-	-	-	*Multipurpose small foot-print*	②
SB	150	-	0.033~0.3	375	1,500	-	-	-	-	-	-	*Multipurpose small foot-print*	①
AU	250	X2	0.033~0.1	1,250*3	2,000	○	○	-	-	○	-	*Small size*	②
RE	275	X2	0.01~0.2	1,000	2,000	○	○	-	-	○	○	*Small size*	②
XE	250	X2	0.01~1.0	1,250	2,000	○	○	-	-	○	-	*Compliance with Class X2*	②
XEB	250	X2	0.01~1.0	1,250	2,000	○	○	-	-	○	-	*Compliance with Class X2*	①
CR	250	-	0.1~0.5	625	2,000	-	-	-	-	-	-	*Suitable for Japan industrial machine (250V AC)*	①
RMTE-FA, MA	250	-	0.22	625	2,000	-	-	-	-	-	-	*Connect to electromagnetic switch and contactor directly*	③
RMTE	250	X2	0.22	1,000	2,000	○	○	○	-	-	-	*Connect to electromagnetic switch and contactor directly*	③
CRE	250	X2	0.1~0.5	625	2,000	○	-	○	-	-	-	*Suitable for Europe, American standards*	①
3CRE*1	250	X2	0.3/1phase 0.5/1phase	625	2,000	○	-	○	-	-	-	*Suitable for Europe, American standards (Three phase delta connection)*	①
CRH	500	X2	0.1~0.47	1,250	2,000	○	-	-	-	-	-	*Suitable for American standards(single phase), rated voltage 500V AC*	①
3CRH	500	X2	0.47/1phase 0.33/1phase	1,250	2,000	○	-	-	-	-	-	*Suitable for American standards(three phase delta connection), rated voltage 500V AC*	①
SK01D2E-12033	250	X2	0.33/1phase	625	2,000	○	○	○	-	-	-	*Connect to electromagnetic switch and contactor directly*	③
SK02D2E-04747	250	X2	0.47/1phase	625	2,000	○	○	○	-	-	-	*Connect to electromagnetic switch and contactor directly*	③
SK03D2E-12033	250	X2	0.33/1phase	625	2,000	○	○	○	-	-	-	*Connect to electromagnetic switch and contactor directly*	③
SK07D2E-04747	250	X2	0.47/1phase	625	2,000	○	○	○	-	-	-	*Connect to electromagnetic switch and contactor directly*	③
SK08D2E-04747	250	X2	0.47/1phase	625	2,000	○	○	○	-	-	-	*Connect to electromagnetic switch and contactor directly*	③
SK10A2E-12033	250	X2	0.33/1phase	625	2,000	○	○	-	-	○	-	*Compatible with SK12Q□W series manufactured by Fuji Electric FA Components & Systems Co., Ltd.*	①

*1 3CRE30680: UL unapproved *2 50/60Hz 2~5sec. *3 Lead type ①: Flex PVC wire, ②: Bare wire, ③: Metal Terminal

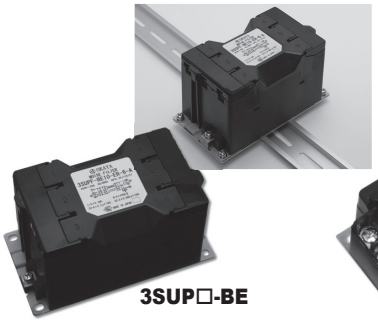
RoHS
2011/65/EU

NOISE FILTERS

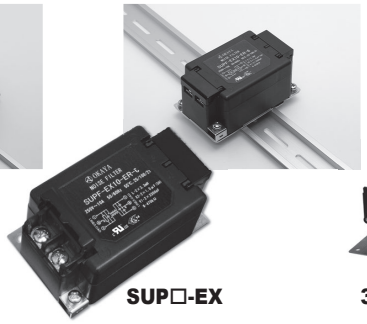
OKAYA

■ NOISE FILTER, SURGE TRAP FILTER

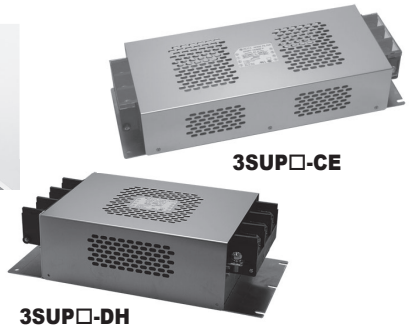
Effective as a counter measure for noise in various electric devices.



3SUP□-BE

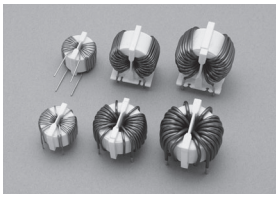


SUP□-EX



3SUP□-DH

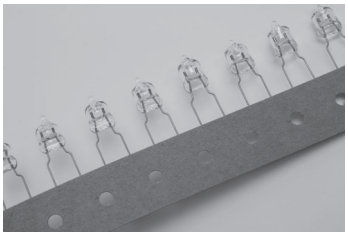
3SUP□-CE



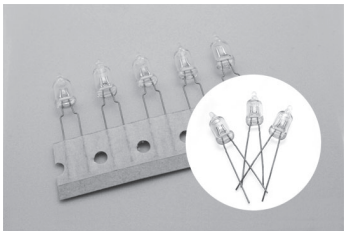
RCV, RCH

Model Number	Rated Voltage (V AC)	Rated Current (A)																							Safety Standard	Features	Case Type *1	SCCR Value *2
		1	2	3	5	6	8	10	15	20	25	30	40	50	60	75	80	100	150	200	250	300	400	500	700				
SUP-E□H	250	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CSA,ENEC*3	*Less leak current, medical application*	①	-
	250	-	-	-	○	-	-	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	UL, CSA,ENEC*3	*Less leak current, medical application*	①	-
SUP-E□H-EP	250	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	CSA,ENEC*3	*For high pulse*	①	-
	250	-	-	-	○	-	-	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	UL, CSA,ENEC*3	*For high pulse*	①	-
SUP-P□H-EPR	250	-	-	-	○	-	○	○	○	○	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	UL, cUL, ENEC*3	*Suitable for high pulse attenuation*	①	-
SUP-P□H-E1PR/-R	250	-	-	-	○	-	○	○	○	○	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	UL, cUL, ENEC*3	*Less leak current, medical application*	①	-
SUP-ET	250	-	-	-	○	-	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	UL, cUL, ENEC*3	*Attachment with Faston terminal*	①	-
SUP□-EX	250	-	-	-	○	-	-	○	○	○	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	UL, cUL, ENEC*3	*Terminal block, Small-sized*	②	10
SUP□-EY	250	-	-	-	○	-	-	○	○	○	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	UL, cUL, ENEC*3	*Terminal block, medical application*	②	10
SUP-EK	250	-	-	-	○	-	-	○	○	○	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	UL, cUL, TÜV	*Two stage ferrite core circuit*	①	10
SUP-EL	250	-	-	-	○	-	-	○	○	○	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	UL, cUL, TÜV	*High attenuation by double ferrites*	①	10
SUP-EV	250	-	-	-	○	-	-	○	○	○	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	UL, cUL, ENEC*3	*Small-footprint and mulitipurpose*	①	-
SUP-EW	250	-	-	-	○	-	-	○	○	○	-	○	-	-	-	-	-	-	-	-	-	-	-	-	-	UL, cUL, ENEC*3	*High attenuation and small-footprint*	①	-
SUP-MH-ER-4	250	-	-	-	-	-	-	-	-	-	-	-	○	-	○	-	○	○	-	○	-	○	-	-	-	UL(Only 40, 60A)	*Large current, small and light*	①	-
3SUP-WH-ER-4	250	-	-	-	-	-	-	○	-	○	-	○	-	○	-	○	-	○	○	○	○	-	-	-	-	UL, ENEC*3	*3-Phase, small and light*	①	10
3SUP-AH-ER-4	250	-	-	-	-	-	-	○	-	○	-	○	-	○	-	○	-	○	○	○	○	-	-	-	-	UL, ENEC*3	*3-Phase, small and attenuation*4*	①	-
3SUP-HQ-ER-6	500	-	-	-	-	-	-	○	-	○	-	○	-	○	-	-	-	-	-	-	-	-	-	-	-	UL, cUL, ENEC*3	*3-Phase, small, multipourpose*	②	10~19
3SUP-HU-ER-6	500	-	-	-	-	-	-	○	-	○	-	○	-	○	-	-	-	-	-	-	-	-	-	-	-	UL, cUL, ENEC*3	*3-Phase, small and high attenuation*	②	10~19
3SUP□-BE	250	-	-	-	-	○	-	○	-	○	-	○	-	○	○	-	-	-	-	-	-	-	-	-	-	UL, cUL, ENEC*3	*Terminal block (6A up to 30A)*	②	10~19
3SUP□-BH	500	-	-	-	-	○	-	○	-	○	-	○	-	○	○	-	-	-	-	-	-	-	-	-	-	UL, cUL, ENEC*3	*Terminal block (6A up to 30A)*	②	10~19
3SUP□-AE	250	-	-	-	-	-	-	-	-	-	-	-	-	○	-	○	-	○	○	○	○	-	-	-	-	UL, cUL, ENEC*3	*Selectable component values. 250V AC*	①	10~33
3SUP□-AH	500	-	-	-	-	-	-	-	-	-	-	-	-	○	-	○	-	○	○	○	○	-	-	-	-	UL, cUL, ENEC*3	*Selectable component values. 500V AC*	①	10~33
3SUP□-CE	250	-	-	-	-	○	-	○	-	○	-	○	○	○	○	-	-	-	-	-	-	-	○	-	-	UL, ENEC*3	*Low profile, suitable for wide band*	①	5~36
3SUPF-CE	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	○	○	○	○	○	○	○	-	-	UL, cUL, ENEC*3	*Low profile, suitable for wide band*	①	5~36
3SUP□-CH	500	-	-	-	-	○	-	○	-	○	-	○	○	○	○	-	-	-	-	-	-	-	○	-	-	UL, ENEC*3	*Low profile, suitable for wide band*	①	5~36
3SUPF-CH	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	○	○	○	○	○	○	○	-	-	UL, cUL, ENEC*3	*Low profile, suitable for wide band*	①	5~36
3SUP□-DE	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	○	-	-	UL, cUL, ENEC*3	*Low profile, 1 stage circuit construction*	①	26~36
3SUPF-DE	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	○	○	○	○	○	○	-	-	-	UL, cUL, ENEC*3	*Low profile, 1 stage circuit construction*	①	26~36
3SUP□-DH	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	○	-	-	UL, cUL, ENEC*3	*Low profile, 1 stage circuit construction*	①	26~36
3SUPF-DH	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	○	○	○	○	○	○	-	-	-	UL, cUL, ENEC*3	*Low profile, 1 stage circuit construction*	①	26~36
3SUP-HE-ER-6	460	-	-	-	○	-	-	○	-	-	○	-	○	-	○	-	○	○	○	○	-	-	-	-	-	UL, TÜV	*Less than 150A by UL*	①	5~10
3SUP-HL-ER-6	500	-	-	-	○	-	-	○	○	-	-	○	-	○	-	○	-	○	○	○	-	-	-	-	-	UL, TÜV	*High attenuation by double ferrites*	①	10~32
3SUP-HP-ER-6	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	○	○	-	*Large current three phase type noise filter*	①	-
RZR-N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*Zero phase reactive coil*	-	-
RCH	-	-	-	○	○	-	-	○	○	-	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*Common-mode coil, Horizontal type*	-	-
RCV	-	-	-	○	○	-	-	○	○	-	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*Common-mode coil, Vertical type*	-	-
3XYEB	250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*Suitable for radio baseband noise*	②	-

*1 ①: Metal ②: Resin *2 Obtained in combination with a circuit breaker (Listed-certified product)
*3 Approved by SEMKO *4 UL approved model number: 3SUP-A250H-ER-4A



RA–MX–V7–Y,Y(5)



RA–C6

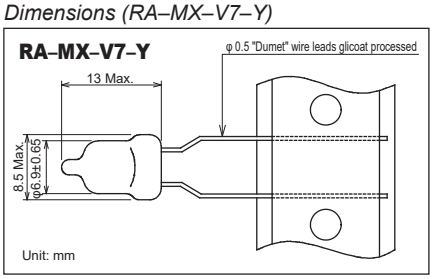
■ GAS DISCHARGE TUBE *RA–MX–V7–Y,Y(5) Series*

The RA–MX series is a radial type high voltage surge absorber that can tolerate withstand voltage tests.

Model Number	DC Breakdown Voltage (V)	Impulse Sparkover Voltage 1.2/50μs		Insulation Resistance (MΩ) min.	Capacitance 1MHz (pF) max.	Impulse Life Test 8/20μs 100A (Times)	Impulse Current Capacity 8/20μs (A)	AC Withstand Voltage Test	Safety Standard	
		Applied Voltage	Specification						UL1449/ cUL C22.2 No.269.5	TÜV IEC/EN 62368-1
RA-501MX-V7-Y/Y(5)	500(400~600)	–	–	1,000(DC100V)	1.0	300	3,500	–	○*1*3	–
RA-601MX-V7-Y/Y(5)	600(480~720)			1,000(DC250V)				–	○*1*3	–
RA-102MX-V7-Y/Y(5)	1,000(800~1,200)			1,000(DC500V)				–	○*2*3	–
RA-152MX-V7-Y/Y(5)	1,500(1,200~1,800)							–	○*2*3	–
RA-242MX-V7-Y/Y(5)	2,400(1,920~2,880)*5	5,000V	5,000V max.					AC1,250V 3s	○*2*3	–
RA-302MX-V7-Y/Y(5)	3,000(2,400~3,600)*5							AC1,500V 60s	○*1*3	○*4
RA-362MX-V7-Y/Y(5)	3,600(2,880~4,320)*5							AC1,800V 3s	○*1*3	○*4
RA-402MX-V7-Y/Y(5)	4,000(3,200~4,800)*5	7,500V	7,500V max.					AC2,000V 60s	○*1*3	○*4
RA-452MX-V7-Y/Y(5)	4,500(3,600~5,400)*5	8,000V	8,000V max.	1,000(DC1000V)				AC2,000V 60s	○*1*3	○*4

*1 Rated voltage AC125V: Approved if it is connected to UL approved varistor (V1.0mA≥270V, D≥φ 7mm)
*2 Rated voltage AC125V: Approved if it is connected to UL approved varistor (V1.0mA≥270V, D≥φ 5mm)
*3 Rated voltage AC250V: Approved if it is connected to UL approved varistor (V1.0mA≥390V, D≥φ 7mm)
*4 Rated voltage AC125V/AC250V: Approved if it is connected to UL approved varistor (V1.0mA≥470V, D≥φ 5mm)
*5 Reference value

Dimensions (RA–MX–V7–Y)

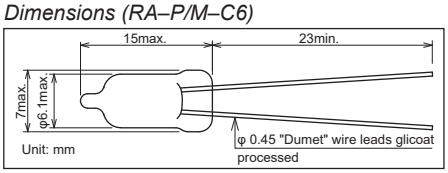


■ GAS DISCHARGE TUBE *RA–C6 Series*

Model Number P: No markings M: Markings	DC Breakdown Voltage (V)	Impulse Sparkover Voltage		Insulation Resistance (MΩ) min.	Capacitance 1MHz (pF) max.	Impulse Life Test 8/20μs 100A (Times)	Impulse Current Capacity 8/20μs (A)	AC Withstand Voltage Test	Safety Standard			
		Applied Voltage	Specification						UL 497B	UL 1449	cUL C22.2 No.269.5	TÜV IEC/EN 62368-1
RA-800P/M-C6	80(64~96)	–	–	1,000(DC50V)	1.0	300	2,000	–	○	–	–	–
RA-201P/M-C6	200(160~240)			1,000(DC100V)				–	○	–	–	–
RA-231P/M-C6	230(184~276)							–	○	–	–	–
RA-311P/M-C6	310(264~356)	1kV/10μs	600V max.					–	○	○*1	–	–
RA-351P/M-C6	350(280~420)	–	–					–	○	○*1	–	–
RA-391P/M-C6	390(312~468)							–	○	○*1	–	–
RA-501P/M-C6	500(400~600)							–	○	○*1	–	–
RA-601P/M-C6	600(480~720)			1,000(DC250V)				–	–	○*1*2	–	–
RA-102P/M-C6	1,000(800~1,200)			1,000(DC500V)				–	–	○*1*2	–	–
RA-152P/M-C6	1,500(1,200~1,800)							–	–	○*1*2	–	–
RA-272M-C6	2,700(2,160~3,240)*6	1.2/50μs 5kV	5,000V max.					AC1,250V 3s	–	○*1	○*1	○*3
RA-302M-C6	3,000(2,400~3,600)*6							AC1,500V 60s	–	○*1*2 *5	○*1*2	○*4
RA-302M-C6(AC)	3,000(2,700~3,900)*6							AC1,800V 3s	–	○*1*2	○*1*2	○*4

*1 Rated voltage AC125V: Approved if it is connected to UL approved varistor (V1.0mA≥270V, D≥φ 5mm)
*2 Rated voltage AC250V: Approved if it is connected to UL approved varistor (V1.0mA≥390V, D≥φ 7mm)
*3 Rated voltage AC125V: Approved if it is connected to UL approved varistor (V1.0mA≥470V, D≥φ 5mm)
*4 Rated voltage AC125V/250V: Approved if it is connected to UL approved varistor (V1.0mA≥470V, D≥φ 5mm)
*5 Rated voltage AC350V: Approved if it is connected to UL approved varistor (V1.0mA≥390V, D≥φ 7mm)
*6 Reference value

Dimensions (RA–P/M–C6)



Taping specifications are also available.

RoHS
2011/65/EU

SURGE PROTECTIVE DEVICES

OKAYA


XD


VD


SV


RSPD


GFD

■ SURGE PROTECTIVE DEVICE XD, VD Series With Fail-safe and Indication Function

Model Number	Max. Continuous Operating Voltage 50/60Hz		SCCR Value (kA)	Voltage Protection Level (V)	Nominal Discharge Current 8/20μs (A)	Max. Discharge Current 8/20μs (A)	Impulse Life Test 8/20μs 1,000A (times)	Safety Standard		
								UL 1449	cUL C22.2 No.269.5	UL-EU IEC/EN 61643-11
XD-275-Q4	1 Phase	AC275V	10	1,500	2,500	5,000	Approx. 500	○	○	○
XD-275-U4	3 Phase	AC275V						○	○	○
XD-480-Q4	1 Phase	AC480V		2,000				○	○	○
XD-480-U4	3 Phase	AC480V						○	○	○
XD-550-U4	3 Phase	AC550V		2,500				○	○	○
VD-275-Q4	1 Phase	AC275V	5	1,500				○	○	○
VD-275-U4	3 Phase	AC275V						○	○	○
VD-480-Q4	1 Phase	AC480V		2,000				○	○	○
VD-480-U4	3 Phase	AC480V						○	○	○
VD-550-U4	3 Phase	AC550V		2,500				○	○	○

■ SURGE PROTECTIVE DEVICE LVF Series

Model Number	Max. Continuous Operating Voltage 50/60Hz		DC Breakdown Voltage Ez(V) ±25%	Voltage Protection Level (V)	Nominal Discharge Current 8/20μs (A)	Max. Discharge Current 8/20μs (A)	Impulse Life Test 8/20μs 1,000A (times)	Safety Standard		
								UL 1449	cUL C22.2 No.269.5	UL-EU IEC/EN 61643-11
LVF150DI-Q4	1 Phase	AC150V	450	1,200	5,000	10,000	Approx. 500	–	–	–
LVF250DI-Q4	1 Phase	AC250V	700	1,500				–	–	–
LVF250DI-U4	3 Phase	AC250V						–	–	–
LVF300DI-Q4	1 Phase	AC300V	1,000	2,000				–	–	–
LVF300DI-U4	3 Phase	AC300V						–	–	–
LVF480DI-Q4	1 Phase	AC480V	1,400	2,500				–	–	–
LVF480DI-U4	3 Phase	AC480V						–	–	–

■ SURGE PROTECTIVE DEVICE SV Series With Fail-safe and Alarm Contact Function

Model Number	Max. Continuous Operating Voltage 50/60Hz		DC Breakdown Voltage Ez(V) ±25%	Voltage Protection Level (V)	Nominal Discharge Current 8/20μs (A)	Max. Discharge Current 8/20μs (A)	Impulse Life Test 8/20μs 1,000A (times)	Safety Standard		
								UL 1449	cUL C22.2 No.269.4	UL-EU IEC/EN 61643-11
SV150DA-Q4	1 Phase	AC150V	450	1,200	2,500	5,000	Approx. 500	–	–	–
SV275DAS-Q4	1 Phase	AC275V	800	1,500				○	○	○
SV275DA-U4	3 Phase	AC275V						○	○	○
SV480DAS-Q4	1 Phase	AC480V	1,400	2,000				○	○	○
SV480DAS-U4	3 Phase	AC480V						○	○	○
SV550DA-U4	3 Phase	AC550V	1,600	2,500				○	○	○

■ SURGE PROTECTIVE DEVICE RSPD Series

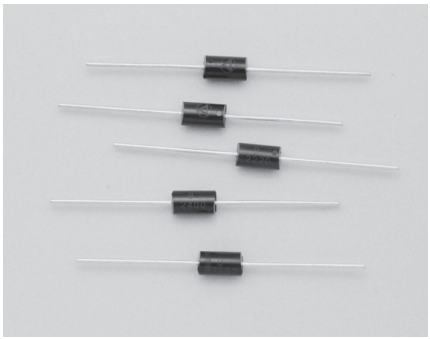
Model Number	Max. Continuous Operating Voltage 50/60Hz		DC Breakdown Voltage Ez(V) ±25%	Voltage Protection Level (V)	Nominal Discharge Current 8/20μs (A)	Max. Discharge Current 8/20μs (A)	Impulse Life Test 8/20μs 1,000A (times)	Safety Standard		
								UL 1449	cUL C22.2 No.269.5	UL-EU IEC/EN 61643-11
RSPD-150-Q-4/5	1 Phase	AC150V	400	800	2,500	5,000	Approx. 300	○	○	○
RSPD-250-Q-4/5	1 Phase	AC250V	700	1,300				○	○	○
RSPD-250-U-4/5	3 Phase	AC250V						○	○	○
RSPD-420-Q-4/5	1 Phase	AC420V	1,100	1,500				○	○	○
RSPD-420-U-4/5	3 Phase	AC420V						○	○	○
RSPD-500-Q-4/5	1 Phase	AC500V	1,300	2,000				○	○	○
RSPD-500-U-4/5	3 Phase	AC500V						○	○	○
RSPD-600-Q-4/5	1 Phase	AC600V	1,500	2,500				○	○	○
RSPD-600-U-4/5	3 Phase	AC600V						○	○	○

■ SURGE PROTECTIVE DEVICE GFD-300-Q4

Model Number		Max. Continuous Operating Voltage 50/60Hz	Varistor Voltage (V) ±10%	DC Breakdown Voltage Ez(V) ±30%	Impulse Life Test 8/20μs 1,000A (times)	Nominal Discharge Current 8/20μs (A)	Max. Discharge Current 8/20μs (A)	Voltage Protection Level (V)	Safety Standard		
									UL 1449	cUL C22.2 No.269.5	UL-EU IEC/EN 61643-11
GFD-300-Q4	L-N	300	480	–	Approx.300	2,500	5,000	1,400	○	○	–
	L, N-G	–	–	1,200							

CAT.No. 0087S2606-1.0E

■ AVALANCHE BREAKDOWN DIODE RSSA U, B Series



U, B

Series	Uni-polar type	Bi-polar type	Rated Peak Impulse Power Dissipation	
			8/20μs	10/1,000μs
1000	**U**	**B**	6,000W	500W
2000	**U**	**B**	18,000W	1,500W
3000	**U**	**B**	34,000W	3,500W

[1000 Series]

Rated Peak Impulse Power Dissipation 6,000W (8/20μs)

Model Number	Nominal Breakdown Voltage V_{BR} (V)	Maximum Working Voltage V_{WM} (V)
□1007	7.5	6.05
□1012	12.0	9.72
□1018	18.0	14.50
U1027	27.0	21.80
U1039	39.0	32.40
□1047	47.0	40.50

* U: Uni-Polar type, B: Bi-Polar Type, □: Either U or B
* Please feel free to inquire about any other request.

[2000 Series]

Rated Peak Impulse Power Dissipation 18,000W (8/20μs)

Model Number	Nominal Breakdown Voltage V_{BR} (V)	Maximum Working Voltage V_{WM} (V)
B2008	8.2	6.63
B2012	12.0	9.72
□2018	18.0	14.50
□2022	22.0	17.80
B2027	27.0	21.80
□2033	33.0	26.80
□2039	39.0	31.60
□2047	47.0	38.10
B2068	68.0	55.10
B2082	82.0	66.40
B2100	100.0	81.00
□2180	180.0	146.00
B2220	220.0	175.00
B2250	250.0	202.00
B2400	400.0	324.00

* U: Uni-Polar type, B: Bi-Polar Type, □: Either U or B

[3000 Series]

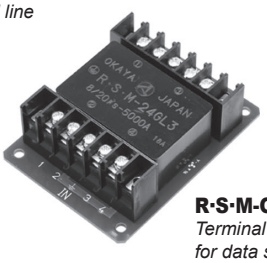
Rated Peak Impulse Power Dissipation 34,000W (8/20μs)

Model Number	Nominal Breakdown Voltage V_{BR} (V)	Maximum Working Voltage V_{WM} (V)
B3008	8.2	6.63
□3015	15.0	12.10
□3018	18.0	14.50
U3022	22.0	17.80
B3036	36.0	29.16
U3039	39.0	31.60
U3180	180.0	146.00

* U: Uni-Polar type, B: Bi-Polar Type, □: Either U or B

■ SURGE PROTECTIVE DEVICE R·S·M Series, RLAN Series

R·S·M-GL
PCB mounting type SPD for data signal line and control line



R·S·M-GL-PT
Terminal block type SPD for data signal line and control line

R·S·M-GL-DIN
For data signals and control lines
**DIN rail is optional.*

RLAN-IS
Insulated type surge protective device for LAN

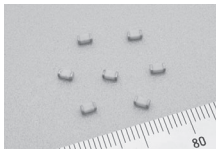
RLAN2
Surge protective device for LAN

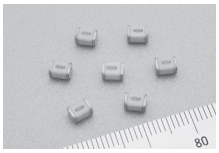
Model Number		Rated Voltage	Max. Continuous Operating Voltage	Impulse Discharge Current	Impulse Life Test
R·S·M-5GL3	1,2- ⏚	DC 5.0V	DC6.63V	Category C2: 8/20μs-5kA, Positive/Negative 5 times Category D1: 10/350μs-2.5kA, Positive/Negative 1 times	Category C3(B1/B3): 10/1,000μs-100A, 300 times Category B2: 5/300μs(10/700μs)-100A, 300 times Category C1: 8/20μs-500A, 300 times
R·S·M-12GL3	1,2- ⏚	DC12.0V	DC14.5V		
R·S·M-24GL3	1,2- ⏚	DC24.0V	DC26.8V		
R·S·M-48GL3	1,2- ⏚	DC48.0V	DC55.1V		

RoHS
2011/65/EU

SURGE PROTECTIVE DEVICES

OKAYA


RHCA3216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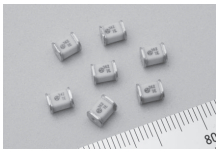
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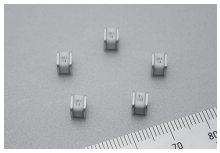
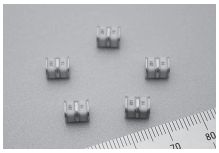

R5K


R5K3

■ GAS DISCHARGE TUBE RHCA3216 Series

Model Number *	DC Breakdown Voltage (V)	Insulation Resistance (MΩ) min.	Capacitance 1MHz (pF) max.	Impulse Life Test 8/20μs 50A (times)	Impulse Current Capacity 8/20μs Positive/Negative 5 times (A)	Impulse Withstanding Voltage Capacity 10/700μs Positive/Negative 5 times (V)	Safety Standard UL497B
RHCA-900□31U	90	100(DC50V)	0.15	300	500(R=2Ω)	4,000(R=40Ω)	○
RHCA-201□31U	200						○
RHCA-301□31U	300	100(DC100V)					○
RHCA-401□31U	400						○
RHCA-501□31U	500						○

* □:Tolerance ±20%=P, ±30%=Q

■ GAS DISCHARGE TUBE RHCA4532 Series

Model Number *	DC Breakdown Voltage (V)	Insulation Resistance (MΩ) min.	Capacitance 1MHz (pF) max.	Impulse Life Test 8/20μs 100A (times)	Impulse Current Capacity 8/20μs Positive/Negative 5 times (A)	Impulse Withstanding Voltage Capacity 10/700μs Positive/Negative 5 times (V)	Safety Standard UL497B
RHCA-900□43U	90	1,000(DC50V)	0.25	300	2,000(R=2Ω)	4,000(R=40Ω)	○
RHCA-201□43U	200	1,000(DC100V)					○
RHCA-301□43U	300						○
RHCA-351□43U	350						○
RHCA-401□43U	400						○
RHCA-501□43U	500						○
RHCA-601□43U	600						○

* □:Tolerance ±20%=P, ±30%=Q

■ GAS DISCHARGE TUBE RHCA5039(335) Series

Model Number	Impulse Sparkover Voltage 1.2/50μs		Withstand Voltage Test	Insulation Resistance (MΩ) min.	Capacitance 1MHz (pF) max.	Impulse Life Test 8/20μs 100A (times)	Impulse Current Capacity 8/20μs (A)	DC Breakdown Voltage (V) ±20%	Safety Standard		
	Applied Voltage	Specification							UL1449	cUL C22.2 No.269.5	UL-EU IEC/EN 61643-311
RHCA-102P53U(335)	–	–	–	1,000(DC500V)	0.6	300	3,500	1,000 ±20%	○*1*2	○*1*2	○
RHCA-102Q53U(335)								1,000 ±30%	○*1*2	○*1*2	○
RHCA-202H53U(335)	5,000V	4,500V max.	AC1,000V 60s					2,000 ±20%*3	○*1	○*1	○
RHCA-242H53U(335)			AC1,000V 60s AC1,200V 3s					2,400 ±20%*3	○*1	○*1	○
RHCA-272H53U(335)			AC1,200V 60s					2,700 ±20%*3	○*1	○*1	○
RHCA-302H53U(335)		4,700V max.	AC1,500V 60s					3,000 ±20%*3	○*1*2	○*1*2	○
RHCA-362H53U(335)		4,950V max.	AC1,500V 60s AC1,800V 3s					3,600 ±20%*3	○*1*2	○*1*2	○
RHCA-402H53U(335)	7,500V	7,450V max.	AC2,000V 60s					4,000 ±20%*3	○*1*2	○*1*2	○
RHCA-452H53U(335)	8,000V	7,950V max.		1,000(DC1000V)				4,500 ±20%*3	○*1*2	○*1*2	○

*1 Rated voltage AC125V: Approved if it is connected to UL approved varistor (V1.0mA≥270V, D≥φ 7mm)
*2 Rated voltage AC250V: Approved if it is connected to UL approved varistor (V1.0mA≥470V, D≥φ 7mm)
*3 Reference value

■ GAS DISCHARGE TUBE R5K Series

Model Number *	DC Breakdown Voltage (V)	Insulation Resistance (MΩ) min.	Capacitance 1MHz (pF) max.	Impulse Life Test 8/20μs 100A (times)	Impulse Current Capacity 8/20μs Positive/Negative 5 times (A)	Impulse Withstanding Voltage Capacity 10/700μs Positive/Negative 5 times (V)
R5K-750□45U	75	1,000(DC50V)	1.0	300	5,000(R=2Ω)	15,000(R=40Ω)
R5K-900□45U	90					
R5K-231□45U	230	1,000(DC100V)				
R5K-351□45U	350					
R5K-421□45U	420					
R5K-501□45U	500					
R5K-601□45U	600					

* □:Tolerance ±20%=P, ±30%=Q

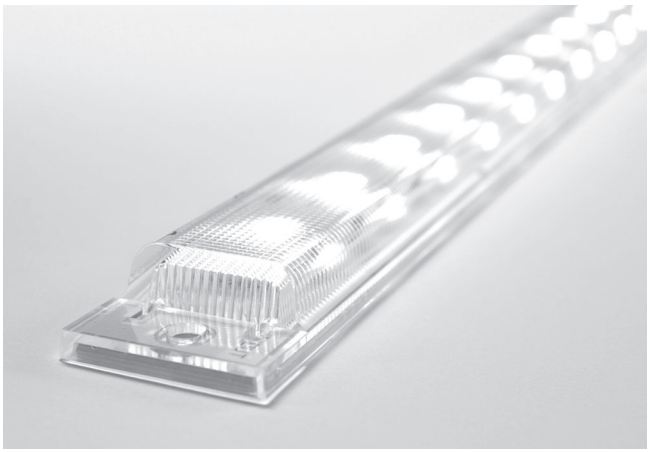
■ GAS DISCHARGE TUBE R5K3 Series

Model Number *	DC Breakdown Voltage (V)	Insulation Resistance (MΩ) min.	Capacitance 1MHz (pF) max.	Impulse Life Test 8/20μs 100A (times)	Impulse Current Capacity 8/20μs Positive/Negative 5 times (A)	Impulse Withstanding Voltage Capacity 10/700μs Positive/Negative 5 times (V)
R5K3-750□65U	75	1,000(DC50V)	1.0	300	5,000(R=2Ω)	15,000(R=40Ω)
R5K3-900□65U	90					
R5K3-231□65U	230	1,000(DC100V)				
R5K3-351□65U	350					
R5K3-421□65U	420					
R5K3-501□65U	500					
R5K3-601□65U	600					

* □:Tolerance ±20%=P, ±30%=Q

CAT.No. 0087S2606-1.0E

■ BAR TYPE LED *RLB Series*



Features

- *9.5mm thin design*
- *Waterproof construction is equivalent to IP64.(except for terminal of cable)*
- *DC24V CE certified*
- *With protective function against surge, overcurrent, backward voltage*
- *Constant current control*

Applications

- *Inner lighting inside machine tool*
- *Lighting for difficult place to replace*
- *Lighting for maintenance of fire-prevention equipment*
- *Safe light for plant facilities and building facilities*

Specification

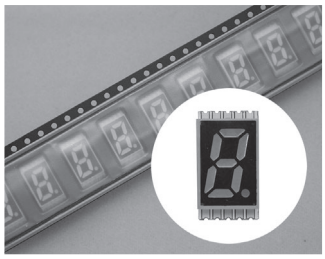
Ta=25°C

Model Number	Rated Voltage	Emitting Color	Dissipation Power (W) typ.	Operating Temperature Limit (°C)	Storage Temperature Limit (°C)	Luminous Flux (lm) typ.	Color Temperature (K) typ.	Directivity Angle 2θ1/2 (°) typ.	Weight (g) Cable Length: 500mm
RLB-DWLC-D2□	DC24V	Day white	4.15	-20~+50	-20~+70	440	6,500	110	56
RLB-DWSC-D2□	DC24V	Day white	2.2	-20~+50	-20~+70	115	6,500	110	34
RLB-DWLC-A2□	AC100~240V	Day white	3.4	-20~+50	-20~+60	320	6,500	110	70

If any additional information is needed, please feel free to ask.

AC power type is PSE-compliant (Blinking at 100/120Hz. Can not use it as general lighting)

■ LED 7 SEGMENT DISPLAY & LED INDICATOR

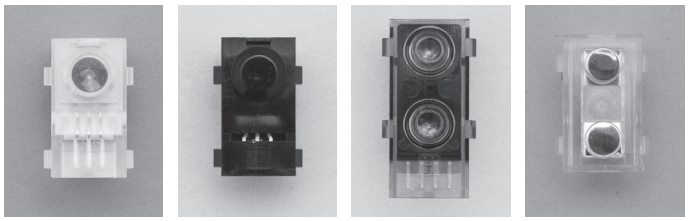


RCN-SDA03R3NL

BDR Series

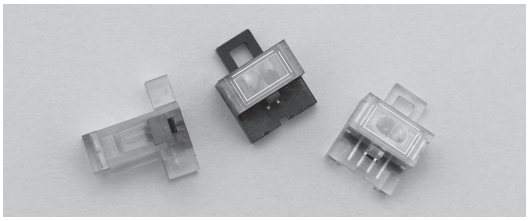
■ SENSOR PRODUCTS

TRANSMISSIVE PHOTOINTERRUPTER

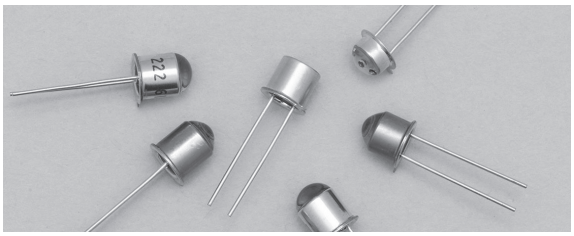


Separate type emitter | *Separate type receiver* | *Integral type emitter / receiver* | *Prism*

PHOTO REFLECTER



INFRARED LED EMITTING COLLIMATED LIGHT



Features

- *CAN Type: Hermetic seal attains high reliability.*
- *SMD Type (RLD414): One of a kind aspheric lens provides excellent parallelism and flatness.*

Applications

- *Light source for encoder*
- *Switch of light*
- *Automated industrial machine*

MAIN PRODUCTS

- FILM CAPACITORS
- NOISE FILTERS
- SURGE PROTECTIVE DEVICES
- OPTICAL PARTS

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For improvement, specifications are subject to change without prior notice.

⚠ CAUTION FOR SAFETY

Please review individual technical data, specification, and manual before use.

- Please make inquiries for application of these products in final products such as aerospace equipment, undersea cable, nuclear reaction control system, life maintenance device, automobile, transportation equipment, and traffic control system.

CAT.NO. 0087S2606-1.0E