



VZCA2.E479668 Surge-protective Devices - Component

[Page Bottom](#)

Surge-protective Devices - Component

[See General Information for Surge-protective Devices - Component](#)
SHENZHEN RUILONGYUAN ELECTRONICS CO LTD BANTIAN BRANCH

E479668

3F,Building 4,1231 Guangang Road
Guihua Community
Guanlan Street,Longhua New District
Shenzhen, Guangdong 518129 CHINA

Cat No.	SPD Type	Volts (V)	AC/DC/DC PV	PH	AMPS (A)	AMB (°C)Min	AMB (°C)Max	MODE	VPR (Vpk)	MLV (Vpk)	MCOV (V)	Vn (Vdc)	In (kA)	SCCR (kA)	NOTES
05D101K-J-H	5	60	AC	1	-	-40	125	Ld-Ld	-	320	60	100	0.5	-	1, 5a
05D101K@	5	60	AC	1	N/A	-40	105	Ld-Ld	-	320	60	100	0.5	N/A	1,5a
05D121K-J-H	5	75	AC	1	-	-40	125	Ld-Ld	-	360	75	120	0.5	-	1, 5a
05D121K@	5	75	AC	1	N/A	-40	105	Ld-Ld	-	360	75	120	0.5	N/A	1,5a
05D151K-J-H	5	95	AC	1	-	-40	125	Ld-Ld	-	400	95	150	0.5	-	1, 5a
05D151K@	5	95	AC	1	N/A	-40	105	Ld-Ld	-	400	95	150	0.5	N/A	1,5a
05D180K-J-H	5	11	AC	1	-	-40	125	Ld-Ld	-	100	11	18	0.15	-	1, 5a
05D180K@	5	11	AC	1	N/A	-40	105	Ld-Ld	-	100	11	18	0.15	N/A	1,5a
05D181K-J-H	5	115	AC	1	-	-40	125	Ld-Ld	-	450	115	180	0.5	-	1, 5a
05D181K@	5	115	AC	1	N/A	-40	105	Ld-Ld	-	450	115	180	0.5	N/A	1,5a
05D201K-J-H	5	130	AC	1	-	-40	125	Ld-Ld	-	480	130	200	0.5	-	1, 5a
05D201K@	5	130	AC	1	N/A	-40	105	Ld-Ld	-	480	130	200	0.5	N/A	1,5a
05D220K-J-H	5	14	AC	1	-	-40	125	Ld-Ld	-	110	14	22	0.15	-	1, 5a
05D220K@	5	14	AC	1	N/A	-40	105	Ld-Ld	-	110	14	22	0.15	N/A	1,5a
05D221K-J-H	5	140	AC	1	-	-40	125	Ld-Ld	-	520	140	220	0.5	-	1, 5a
05D221K@	5	140	AC	1	N/A	-40	105	Ld-Ld	-	520	140	220	0.5	N/A	1,5a
05D241K-J-H	5	150	AC	1	-	-40	125	Ld-Ld	-	550	150	240	0.5	-	1, 5a
05D241K@	5	150	AC	1	N/A	-40	105	Ld-Ld	-	550	150	240	0.5	N/A	1,5a
05D270K-J-H	5	17	AC	1	-	-40	125	Ld-Ld	-	130	17	27	0.15	-	1, 5a
05D270K@	5	17	AC	1	N/A	-40	105	Ld-Ld	-	130	17	27	0.15	N/A	1,5a
05D271K-J-H	5	175	AC	1	-	-40	125	Ld-Ld	-	640	175	270	0.5	-	1, 5a
05D271K@	5	175	AC	1	N/A	-40	105	Ld-Ld	-	640	175	270	0.5	N/A	1,5a
05D301K-J-H	5	190	AC	1	-	-40	125	Ld-Ld	-	720	190	300	0.5	-	1, 5a
05D301K@	5	190	AC	1	N/A	-40	105	Ld-Ld	-	720	190	300	0.5	N/A	1,5a
05D330K-J-H	5	20	AC	1	-	-40	125	Ld-Ld	-	140	20	33	0.15	-	1, 5a
05D330K@	5	20	AC	1	N/A	-40	105	Ld-Ld	-	140	20	33	0.15	N/A	1,5a

05D331K-J-H	5	210	AC	1	-	-40	125	Ld-Ld	-	770	210	330	0.5	-	1, 5a
05D331K@	5	210	AC	1	N/A	-40	105	Ld-Ld	-	770	210	330	0.5	N/A	1,5a
05D361K-J-H	5	230	AC	1	-	-40	125	Ld-Ld	-	840	230	360	0.5	-	1, 5a
05D361K@	5	230	AC	1	N/A	-40	105	Ld-Ld	-	840	230	360	0.5	N/A	1,5a
05D390K-J-H	5	25	AC	1	-	-40	125	Ld-Ld	-	160	25	39	0.15	-	1, 5a
05D390K@	5	25	AC	1	N/A	-40	105	Ld-Ld	-	160	25	39	0.15	N/A	1,5a
05D391K-J-H	5	250	AC	1	-	-40	125	Ld-Ld	-	900	250	390	0.5	-	1, 5a
05D391K@	5	250	AC	1	N/A	-40	105	Ld-Ld	-	900	250	390	0.5	N/A	1,5a
05D431K-J-H	5	275	AC	1	-	-40	125	Ld-Ld	-	990	275	430	0.5	-	1, 5a
05D431K@	5	275	AC	1	N/A	-40	105	Ld-Ld	-	990	275	430	0.5	N/A	1,5a
05D470K-J-H	5	30	AC	1	-	-40	125	Ld-Ld	-	190	30	47	0.15	-	1, 5a
05D470K@	5	30	AC	1	N/A	-40	105	Ld-Ld	-	190	30	47	0.15	N/A	1,5a
05D471K-J-H	5	300	AC	1	-	-40	125	Ld-Ld	-	1070	300	470	0.5	-	1, 5a
05D471K@	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1070	300	470	0.5	N/A	1,5a
05D511K-J-H	5	320	AC	1	-	-40	125	Ld-Ld	-	1140	320	510	0.5	-	1, 5a
05D511K@	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1140	320	510	0.5	N/A	1,5a
05D560K-J-H	5	35	AC	1	-	-40	125	Ld-Ld	-	210	35	56	0.15	-	1, 5a
05D560K@	5	35	AC	1	N/A	-40	105	Ld-Ld	-	210	35	56	0.15	N/A	1,5a
05D561K-J-H	5	350	AC	1	-	-40	125	Ld-Ld	-	1240	350	560	0.5	-	1, 5a
05D561K@	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1240	350	560	0.5	N/A	1,5a
05D680K-J-H	5	40	AC	1	-	-40	125	Ld-Ld	-	230	40	68	0.15	-	1, 5a
05D680K@	5	40	AC	1	N/A	-40	105	Ld-Ld	-	230	40	68	0.15	N/A	1,5a
05D820K-J-H	5	50	AC	1	-	-40	125	Ld-Ld	-	300	50	82	0.5	-	1, 5a
05D820K@	5	50	AC	1	N/A	-40	105	Ld-Ld	-	300	50	82	0.5	N/A	1,5a
07D101K-J-H	5	60	AC	1	-	-40	125	Ld-Ld	-	320	60	100	1	-	1, 5a
07D101K@	5	60	AC	1	N/A	-40	105	Ld-Ld	-	320	60	100	1	N/A	1,5a
07D121K-J-H	5	75	AC	1	-	-40	125	Ld-Ld	-	360	75	120	1	-	1, 5a
07D121K@	5	75	AC	1	N/A	-40	105	Ld-Ld	-	360	75	120	1	N/A	1,5a
07D151K-J-H	5	95	AC	1	-	-40	125	Ld-Ld	-	410	95	150	1	-	1, 5a
07D151K@	5	95	AC	1	N/A	-40	105	Ld-Ld	-	410	95	150	1	N/A	1,5a
07D180K-J-H	5	11	AC	1	-	-40	125	Ld-Ld	-	80	11	18	0.25	-	1, 5a
07D180K@	5	11	AC	1	N/A	-40	105	Ld-Ld	-	80	11	18	0.25	N/A	1,5a
07D181K-J-H	5	115	AC	1	-	-40	125	Ld-Ld	-	450	115	180	1	-	1, 5a
07D181K@	5	115	AC	1	N/A	-40	105	Ld-Ld	-	450	115	180	1	N/A	1,5a
07D201K-J-H	5	130	AC	1	-	-40	125	Ld-Ld	-	490	130	200	1	-	1, 5a
07D201K@	5	130	AC	1	N/A	-40	105	Ld-Ld	-	490	130	200	1	N/A	1,5a
07D220K-J-H	5	14	AC	1	-	-40	125	Ld-Ld	-	100	14	22	0.25	-	1, 5a

07D220K@	5	14	AC	1	N/A	-40	105	Ld-Ld	-	100	14	22	0.25	N/A	1,5a
07D221K-J-H	5	140	AC	1	-	-40	125	Ld-Ld	-	530	140	220	1	-	1, 5a
07D221K@	5	140	AC	1	N/A	-40	105	Ld-Ld	-	530	140	220	1	N/A	1,5a
07D241K-J-H	5	150	AC	1	-	-40	125	Ld-Ld	-	560	150	240	1	-	1, 5a
07D241K@	5	150	AC	1	N/A	-40	105	Ld-Ld	-	560	150	240	1	N/A	1,5a
07D270K-J-H	5	17	AC	1	-	-40	125	Ld-Ld	-	110	17	27	0.25	-	1, 5a
07D270K@	5	17	AC	1	N/A	-40	105	Ld-Ld	-	110	17	27	0.25	N/A	1,5a
07D271K-J-H	5	175	AC	1	-	-40	125	Ld-Ld	-	650	175	270	1	-	1, 5a
07D271K@	5	175	AC	1	N/A	-40	105	Ld-Ld	-	650	175	270	1	N/A	1,5a
07D301K-J-H	5	190	AC	1	-	-40	125	Ld-Ld	-	720	190	300	1	-	1, 5a
07D301K@	5	190	AC	1	N/A	-40	105	Ld-Ld	-	720	190	300	1	N/A	1,5a
07D330K-J-H	5	20	AC	1	-	-40	125	Ld-Ld	-	130	20	33	0.25	-	1, 5a
07D330K@	5	20	AC	1	N/A	-40	105	Ld-Ld	-	130	20	33	0.25	N/A	1,5a
07D331K-J-H	5	210	AC	1	-	-40	125	Ld-Ld	-	770	210	330	1	-	1, 5a
07D331K@	5	210	AC	1	N/A	-40	105	Ld-Ld	-	770	210	330	1	N/A	1,5a
07D361K-J-H	5	230	AC	1	-	-40	125	Ld-Ld	-	840	230	360	1	-	1, 5a
07D361K@	5	230	AC	1	N/A	-40	105	Ld-Ld	-	840	230	360	1	N/A	1,5a
07D390K-J-H	5	25	AC	1	-	-40	125	Ld-Ld	-	160	25	39	0.25	-	1, 5a
07D390K@	5	25	AC	1	N/A	-40	105	Ld-Ld	-	160	25	39	0.25	N/A	1,5a
07D391K-J-H	5	250	AC	1	-	-40	125	Ld-Ld	-	910	250	390	1	-	1, 5a
07D391K@	5	250	AC	1	N/A	-40	105	Ld-Ld	-	910	250	390	1	N/A	1,5a
07D431K-J-H	5	275	AC	1	-	-40	125	Ld-Ld	-	990	275	430	1	-	1, 5a
07D431K@	5	275	AC	1	N/A	-40	105	Ld-Ld	-	990	275	430	1	N/A	1,5a
07D470K-J-H	5	30	AC	1	-	-40	125	Ld-Ld	-	180	30	47	0.25	-	1, 5a
07D470K@	5	30	AC	1	N/A	-40	105	Ld-Ld	-	180	30	47	0.25	N/A	1,5a
07D471K-J-H	5	300	AC	1	-	-40	125	Ld-Ld	-	1080	300	470	1	-	1, 5a
07D471K@	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1080	300	470	1	N/A	1,5a
07D511K-J-H	5	320	AC	1	-	-40	125	Ld-Ld	-	1150	320	510	1	-	1, 5a
07D511K@	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1150	320	510	1	N/A	1,5a
07D560K-J-H	5	35	AC	1	-	-40	125	Ld-Ld	-	210	35	56	0.25	-	1, 5a
07D560K@	5	35	AC	1	N/A	-40	105	Ld-Ld	-	210	35	56	0.25	N/A	1,5a
07D561K-J-H	5	350	AC	1	-	-40	125	Ld-Ld	-	1350	350	560	1	-	1, 5a
07D561K@	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1350	350	560	1	N/A	1,5a
07D621K-J-H	5	385	AC	1	-	-40	125	Ld-Ld	-	1480	385	620	1	-	1, 5a
07D621K@	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1480	385	620	1	N/A	1,5a
07D680K-J-H	5	40	AC	1	-	-40	125	Ld-Ld	-	240	40	68	0.25	-	1, 5a
07D680K@	5	40	AC	1	N/A	-40	105	Ld-Ld	-	240	40	68	0.25	N/A	1,5a

07D681K-J-H	5	420	AC	1	-	-40	125	Ld-Ld	-	1600	420	680	1	-	1, 5a
07D681K@	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1600	420	680	1	N/A	1,5a
07D711K-J-H	5	440	AC	1	-	-40	125	Ld-Ld	-	1660	440	710	1	-	1, 5a
07D711K@	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1660	440	710	1	N/A	1,5a
07D751K-J-H	5	460	AC	1	-	-40	125	Ld-Ld	-	1750	460	750	1	-	1, 5a
07D751K@	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1750	460	750	1	N/A	1,5a
07D781K-J-H	5	485	AC	1	-	-40	125	Ld-Ld	-	1840	485	780	1	-	1, 5a
07D781K@	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1840	485	780	1	N/A	1,5a
07D820K-J-H	5	50	AC	1	-	-40	125	Ld-Ld	-	300	50	82	1	-	1, 5a
07D820K@	5	50	AC	1	N/A	-40	105	Ld-Ld	-	300	50	82	1	N/A	1,5a
07D821K-J-H	5	510	AC	1	-	-40	125	Ld-Ld	-	1930	510	820	1	-	1, 5a
07D821K@	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1930	510	820	1	N/A	1,5a
10D101K-J-H	5	60	AC	1	-	-40	125	Ld-Ld	-	340	60	100	3	-	1, 5a
10D101K@	5	60	AC	1	N/A	-40	105	Ld-Ld	-	340	60	100	3	N/A	1,5a
10D102K-J-H	5	625	AC	1	-	-40	125	Ld-Ld	-	2460	625	1000	3	-	1, 5a
10D102K@	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2460	625	1000	3	N/A	1,5a
10D112K-J-H	5	680	AC	1	-	-40	125	Ld-Ld	-	2660	680	1100	3	-	1, 5a
10D112K@	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2660	680	1100	3	N/A	1,5a
10D121K-J-H	5	75	AC	1	-	-40	125	Ld-Ld	-	380	75	120	3	-	1, 5a
10D121K@	5	75	AC	1	N/A	-40	105	Ld-Ld	-	380	75	120	3	N/A	1,5a
10D151K-J-H	5	95	AC	1	-	-40	125	Ld-Ld	-	430	95	150	3	-	1, 5a
10D151K@	5	95	AC	1	N/A	-40	105	Ld-Ld	-	430	95	150	3	N/A	1,5a
10D180K-J-H	5	11	AC	1	-	-40	125	Ld-Ld	-	80	11	18	0.5	-	1, 5a
10D180K@	5	11	AC	1	N/A	-40	105	Ld-Ld	-	80	11	18	0.5	N/A	1,5a
10D181K-J-H	5	115	AC	1	-	-40	125	Ld-Ld	-	470	115	180	3	-	1, 5a
10D181K@	5	115	AC	1	N/A	-40	105	Ld-Ld	-	470	115	180	3	N/A	1,5a
10D201K-J-H	5	130	AC	1	-	-40	125	Ld-Ld	-	510	130	200	3	-	1, 5a
10D201K@	5	130	AC	1	N/A	-40	105	Ld-Ld	-	510	130	200	3	N/A	1,5a
10D220K-J-H	5	14	AC	1	-	-40	125	Ld-Ld	-	90	14	22	0.5	-	1, 5a
10D220K@	5	14	AC	1	N/A	-40	105	Ld-Ld	-	90	14	22	0.5	N/A	1,5a
10D221K-J-H	5	140	AC	1	-	-40	125	Ld-Ld	-	550	140	220	3	-	1, 5a
10D221K@	5	140	AC	1	N/A	-40	105	Ld-Ld	-	550	140	220	3	N/A	1,5a
10D241K-J-H	5	150	AC	1	-	-40	125	Ld-Ld	-	590	150	240	3	-	1, 5a
10D241K@	5	150	AC	1	N/A	-40	105	Ld-Ld	-	590	150	240	3	N/A	1,5a
10D270K-J-H	5	17	AC	1	-	-40	125	Ld-Ld	-	110	17	27	0.5	-	1, 5a
10D270K@	5	17	AC	1	N/A	-40	105	Ld-Ld	-	110	17	27	0.5	N/A	1,5a
10D271K-J-H	5	175	AC	1	-	-40	125	Ld-Ld	-	680	175	270	3	-	1, 5a

10D271K@	5	175	AC	1	N/A	-40	105	Ld-Ld	-	680	175	270	3	N/A	1,5a
10D301K-J-H	5	190	AC	1	-	-40	125	Ld-Ld	-	750	190	300	3	-	1, 5a
10D301K@	5	190	AC	1	N/A	-40	105	Ld-Ld	-	750	190	300	3	N/A	1,5a
10D330K-J-H	5	20	AC	1	-	-40	125	Ld-Ld	-	120	20	33	0.5	-	1, 5a
10D330K@	5	20	AC	1	N/A	-40	105	Ld-Ld	-	120	20	33	0.5	N/A	1,5a
10D331K-J-H	5	210	AC	1	-	-40	125	Ld-Ld	-	810	210	330	3	-	1, 5a
10D331K@	5	210	AC	1	N/A	-40	105	Ld-Ld	-	810	210	330	3	N/A	1,5a
10D361K-J-H	5	230	AC	1	-	-40	125	Ld-Ld	-	890	230	360	3	-	1, 5a
10D361K@	5	230	AC	1	N/A	-40	105	Ld-Ld	-	890	230	360	3	N/A	1,5a
10D390K-J-H	5	25	AC	1	-	-40	125	Ld-Ld	-	140	25	39	0.5	-	1, 5a
10D390K@	5	25	AC	1	N/A	-40	105	Ld-Ld	-	140	25	39	0.5	N/A	1,5a
10D391K-J-H	5	250	AC	1	-	-40	125	Ld-Ld	-	970	250	390	3	-	1, 5a
10D391K@	5	250	AC	1	N/A	-40	105	Ld-Ld	-	970	250	390	3	N/A	1,5a
10D431K-J-H	5	275	AC	1	-	-40	125	Ld-Ld	-	1070	275	430	3	-	1, 5a
10D431K@	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1070	275	430	3	N/A	1,5a
10D470K-J-H	5	30	AC	1	-	-40	125	Ld-Ld	-	170	30	47	0.5	-	1, 5a
10D470K@	5	30	AC	1	N/A	-40	105	Ld-Ld	-	170	30	47	0.5	N/A	1,5a
10D471K-J-H	5	300	AC	1	-	-40	125	Ld-Ld	-	1180	300	470	3	-	1, 5a
10D471K@	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1180	300	470	3	N/A	1,5a
10D511K-J-H	5	320	AC	1	-	-40	125	Ld-Ld	-	1260	320	510	3	-	1, 5a
10D511K@	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1260	320	510	3	N/A	1,5a
10D560K-J-H	5	35	AC	1	-	-40	125	Ld-Ld	-	190	35	56	0.5	-	1, 5a
10D560K@	5	35	AC	1	N/A	-40	105	Ld-Ld	-	190	35	56	0.5	N/A	1,5a
10D561K-J-H	5	350	AC	1	-	-40	125	Ld-Ld	-	1380	350	560	3	-	1, 5a
10D561K@	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1380	350	560	3	N/A	1,5a
10D621K-J-H	5	385	AC	1	-	-40	125	Ld-Ld	-	1520	385	620	3	-	1, 5a
10D621K@	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1520	385	620	3	N/A	1,5a
10D680K-J-H	5	40	AC	1	-	-40	125	Ld-Ld	-	210	40	68	0.5	-	1, 5a
10D680K@	5	40	AC	1	N/A	-40	105	Ld-Ld	-	210	40	68	0.5	N/A	1,5a
10D681K-J-H	5	420	AC	1	-	-40	125	Ld-Ld	-	1670	420	680	3	-	1, 5a
10D681K@	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1670	420	680	3	N/A	1,5a
10D711K-J-H	5	440	AC	1	-	-40	125	Ld-Ld	-	1740	440	710	3	-	1, 5a
10D711K@	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1740	440	710	3	N/A	1,5a
10D751K-J-H	5	460	AC	1	-	-40	125	Ld-Ld	-	1830	460	750	3	-	1, 5a
10D751K@	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1830	460	750	3	N/A	1,5a
10D781K-J-H	5	485	AC	1	-	-40	125	Ld-Ld	-	1940	485	780	3	-	1, 5a
10D781K@	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1940	485	780	3	N/A	1,5a

10D820K-J-H	5	50	AC	1	-	-40	125	Ld-Ld	-	320	50	82	3	-	1, 5a
10D820K@	5	50	AC	1	N/A	-40	105	Ld-Ld	-	320	50	82	3	N/A	1,5a
10D821K-J-H	5	510	AC	1	-	-40	125	Ld-Ld	-	2040	510	820	3	-	1, 5a
10D821K@	5	510	AC	1	N/A	-40	105	Ld-Ld	-	2040	510	820	3	N/A	1,5a
10D911K-J-H	5	550	AC	1	-	-40	125	Ld-Ld	-	2190	550	910	3	-	1, 5a
10D911K@	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2190	550	910	3	N/A	1,5a
10D951K-J-H	5	575	AC	1	-	-40	125	Ld-Ld	-	2280	575	950	3	-	1, 5a
10D951K@	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2280	575	950	3	N/A	1,5a
14D101K@	5	60	AC	1	N/A	-40	105	Ld-Ld	-	370	60	100	3	N/A	1,5a
14D102K@	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2290	625	1000	3	N/A	1,5a
14D112K@	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2460	680	1100	3	N/A	1,5a
14D121K@	5	75	AC	1	N/A	-40	105	Ld-Ld	-	400	75	120	3	N/A	1,5a
14D122K@	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2760	750	1200	3	N/A	1,5a
14D142K@	5	880	AC	1	N/A	-40	105	Ld-Ld	-	3320	880	1400	3	N/A	1,5a
14D151K@	5	95	AC	1	N/A	-40	105	Ld-Ld	-	450	95	150	3	N/A	1,5a
14D152K@	5	940	AC	1	N/A	-40	105	Ld-Ld	-	3570	940	1500	3	N/A	1,5a
14D162K@	5	1000	AC	1	N/A	-40	105	Ld-Ld	-	3830	1000	1600	3	N/A	1,5a
14D180K@	5	11	AC	1	N/A	-40	105	Ld-Ld	-	90	11	18	1	N/A	1,5a
14D181K@	5	115	AC	1	N/A	-40	105	Ld-Ld	-	490	115	180	3	N/A	1,5a
14D182K@	5	1000	AC	1	N/A	-40	105	Ld-Ld	-	3830	1000	1800	3	N/A	1,5a
14D201K@	5	130	AC	1	N/A	-40	105	Ld-Ld	-	520	130	200	3	N/A	1,5a
14D220K@	5	14	AC	1	N/A	-40	105	Ld-Ld	-	110	14	22	1	N/A	1,5a
14D221K@	5	140	AC	1	N/A	-40	105	Ld-Ld	-	560	140	220	3	N/A	1,5a
14D241K@	5	150	AC	1	N/A	-40	105	Ld-Ld	-	590	150	240	3	N/A	1,5a
14D270K@	5	17	AC	1	N/A	-40	105	Ld-Ld	-	120	17	27	1	N/A	1,5a
14D271K@	5	175	AC	1	N/A	-40	105	Ld-Ld	-	680	175	270	3	N/A	1,5a
14D301K@	5	190	AC	1	N/A	-40	105	Ld-Ld	-	750	190	300	3	N/A	1,5a
14D330K@	5	20	AC	1	N/A	-40	105	Ld-Ld	-	140	20	33	1	N/A	1,5a
14D331K@	5	210	AC	1	N/A	-40	105	Ld-Ld	-	800	210	330	3	N/A	1,5a
14D361K@	5	230	AC	1	N/A	-40	105	Ld-Ld	-	860	230	360	3	N/A	1,5a
14D390K@	5	25	AC	1	N/A	-40	105	Ld-Ld	-	170	25	39	1	N/A	1,5a
14D391K@	5	250	AC	1	N/A	-40	105	Ld-Ld	-	930	250	390	3	N/A	1,5a
14D431K@	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1010	275	430	3	N/A	1,5a
14D470K@	5	30	AC	1	N/A	-40	105	Ld-Ld	-	190	30	47	1	N/A	1,5a
14D471K@	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1090	300	470	3	N/A	1,5a
14D511K@	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1150	320	510	3	N/A	1,5a
14D560K@	5	35	AC	1	N/A	-40	105	Ld-Ld	-	220	35	56	1	N/A	1,5a
14D561K@	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1250	350	560	3	N/A	1,5a
14D621K@	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1400	385	620	3	N/A	1,5a
14D680K@	5	40	AC	1	N/A	-40	105	Ld-Ld	-	250	40	68	1	N/A	1,5a
14D681K@	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1540	420	680	3	N/A	1,5a
14D711K@	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1630	440	710	3	N/A	1,5a
14D751K@	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1710	460	750	3	N/A	1,5a
14D781K@	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1820	485	780	3	N/A	1,5a

14D820K@	5	50	AC	1	N/A	-40	105	Ld-Ld	-	350	50	82	3	N/A	1,5a
14D821K@	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1920	510	820	3	N/A	1,5a
14D911K@	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2050	550	910	3	N/A	1,5a
14D951K@	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2130	575	950	3	N/A	1,5a
18D101K@	5	60	AC	1	N/A	-40	105	Ld-Ld	-	360	60	100	3	N/A	1,5a
18D102K@	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2040	625	1000	3	N/A	1,5a
18D112K@	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2200	680	1100	3	N/A	1,5a
18D121K@	5	75	AC	1	N/A	-40	105	Ld-Ld	-	390	75	120	3	N/A	1,5a
18D122K@	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2480	750	1200	3	N/A	1,5a
18D142K@	5	880	AC	1	N/A	-40	105	Ld-Ld	-	2990	880	1400	3	N/A	1,5a
18D151K@	5	95	AC	1	N/A	-40	105	Ld-Ld	-	440	95	150	3	N/A	1,5a
18D152K@	5	940	AC	1	N/A	-40	105	Ld-Ld	-	3220	940	1500	3	N/A	1,5a
18D162K@	5	1000	AC	1	N/A	-40	105	Ld-Ld	-	3300	1000	1600	3	N/A	1,5a
18D180K@	5	11	AC	1	N/A	-40	105	Ld-Ld	-	80	11	18	1	N/A	1,5a
18D181K@	5	115	AC	1	N/A	-40	105	Ld-Ld	-	480	115	180	3	N/A	1,5a
18D182K@	5	1000	AC	1	N/A	-40	105	Ld-Ld	-	3460	1000	1800	3	N/A	1,5a
18D201K@	5	130	AC	1	N/A	-40	105	Ld-Ld	-	510	130	200	3	N/A	1,5a
18D220K@	5	14	AC	1	N/A	-40	105	Ld-Ld	-	100	14	22	1	N/A	1,5a
18D221K@	5	140	AC	1	N/A	-40	105	Ld-Ld	-	540	140	220	3	N/A	1,5a
18D241K@	5	150	AC	1	N/A	-40	105	Ld-Ld	-	570	150	240	3	N/A	1,5a
18D270K@	5	17	AC	1	N/A	-40	105	Ld-Ld	-	110	17	27	1	N/A	1,5a
18D271K@	5	175	AC	1	N/A	-40	105	Ld-Ld	-	640	175	270	3	N/A	1,5a
18D301K@	5	190	AC	1	N/A	-40	105	Ld-Ld	-	700	190	300	3	N/A	1,5a
18D330K@	5	20	AC	1	N/A	-40	105	Ld-Ld	-	130	20	33	1	N/A	1,5a
18D331K@	5	210	AC	1	N/A	-40	105	Ld-Ld	-	740	210	330	3	N/A	1,5a
18D361K@	5	230	AC	1	N/A	-40	105	Ld-Ld	-	800	230	360	3	N/A	1,5a
18D390K@	5	25	AC	1	N/A	-40	105	Ld-Ld	-	150	25	39	1	N/A	1,5a
18D391K@	5	250	AC	1	N/A	-40	105	Ld-Ld	-	860	250	390	3	N/A	1,5a
18D431K@	5	275	AC	1	N/A	-40	105	Ld-Ld	-	930	275	430	3	N/A	1,5a
18D470K@	5	30	AC	1	N/A	-40	105	Ld-Ld	-	180	30	47	1	N/A	1,5a
18D511K@	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1060	320	510	3	N/A	1,5a
18D560K@	5	35	AC	1	N/A	-40	105	Ld-Ld	-	200	35	56	1	N/A	1,5a
18D561K@	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1150	350	560	3	N/A	1,5a
18D621K@	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1270	385	620	3	N/A	1,5a
18D680K@	5	40	AC	1	N/A	-40	105	Ld-Ld	-	230	40	68	1	N/A	1,5a
18D681K@	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1390	420	680	3	N/A	1,5a
18D711K@	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1460	440	710	3	N/A	1,5a
18D751K@	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1530	460	750	3	N/A	1,5a
18D781K@	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1610	485	780	3	N/A	1,5a
18D820K@	5	50	AC	1	N/A	-40	105	Ld-Ld	-	340	50	82	3	N/A	1,5a
18D821K@	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1700	510	820	3	N/A	1,5a
18D911K@	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1820	550	910	3	N/A	1,5a
18D951K@	5	575	AC	1	N/A	-40	105	Ld-Ld	-	1890	575	950	3	N/A	1,5a
20D101K@	5	60	AC	1	N/A	-40	105	Ld-Ld	-	420	60	100	3	N/A	1,5a
20D101KJ@	5	60	AC	1	N/A	-40	105	Ld-Ld	-	420	60	100	5	N/A	1,5a
20D102K@	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2230	625	1000	3	N/A	1,5a

20D102KJ@	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2230	625	1000	5	N/A	1,5a
20D112K@	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2450	680	1100	3	N/A	1,5a
20D112KJ@	5	680	AC	1	N/A	-40	105	Ld-Ld	-	2450	680	1100	5	N/A	1,5a
20D121K@	5	75	AC	1	N/A	-40	105	Ld-Ld	-	450	75	120	3	N/A	1,5a
20D121KJ@	5	75	AC	1	N/A	-40	105	Ld-Ld	-	450	75	120	5	N/A	1,5a
20D122K@	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2750	750	1200	3	N/A	1,5a
20D122KJ@	5	750	AC	1	N/A	-40	105	Ld-Ld	-	2750	750	1200	5	N/A	1,5a
20D142K@	5	880	AC	1	N/A	-40	105	Ld-Ld	-	3310	880	1400	3	N/A	1,5a
20D142KJ@	5	880	AC	1	N/A	-40	105	Ld-Ld	-	3310	880	1400	5	N/A	1,5a
20D151K@	5	95	AC	1	N/A	-40	105	Ld-Ld	-	500	95	150	3	N/A	1,5a
20D151KJ@	5	95	AC	1	N/A	-40	105	Ld-Ld	-	500	95	150	5	N/A	1,5a
20D152K@	5	940	AC	1	N/A	-40	105	Ld-Ld	-	3560	940	1500	3	N/A	1,5a
20D152KJ@	5	940	AC	1	N/A	-40	105	Ld-Ld	-	3560	940	1500	5	N/A	1,5a
20D162K@	5	1000	AC	1	N/A	-40	105	Ld-Ld	-	3820	1000	1600	3	N/A	1,5a
20D162KJ@	5	1000	AC	1	N/A	-40	105	Ld-Ld	-	3820	1000	1600	5	N/A	1,5a
20D180K@	5	11	AC	1	N/A	-40	105	Ld-Ld	-	90	11	18	1	N/A	1,5a
20D180KJ@	5	11	AC	1	N/A	-40	105	Ld-Ld	-	90	11	18	1.5	N/A	1,5a
20D181K@	5	115	AC	1	N/A	-40	105	Ld-Ld	-	540	115	180	3	N/A	1,5a
20D181KJ@	5	115	AC	1	N/A	-40	105	Ld-Ld	-	540	115	180	5	N/A	1,5a
20D182K@	5	1000	AC	1	N/A	-40	105	Ld-Ld	-	3820	1000	1800	3	N/A	1,5a
20D182KJ@	5	1000	AC	1	N/A	-40	105	Ld-Ld	-	3820	1000	1800	5	N/A	1,5a
20D201K@	5	130	AC	1	N/A	-40	105	Ld-Ld	-	570	130	200	3	N/A	1,5a
20D201KJ@	5	130	AC	1	N/A	-40	105	Ld-Ld	-	570	130	200	5	N/A	1,5a
20D220K@	5	14	AC	1	N/A	-40	105	Ld-Ld	-	100	14	22	1	N/A	1,5a
20D220KJ@	5	14	AC	1	N/A	-40	105	Ld-Ld	-	100	14	22	1.5	N/A	1,5a
20D221K@	5	140	AC	1	N/A	-40	105	Ld-Ld	-	610	140	220	3	N/A	1,5a
20D221KJ@	5	140	AC	1	N/A	-40	105	Ld-Ld	-	610	140	220	5	N/A	1,5a
20D241K@	5	150	AC	1	N/A	-40	105	Ld-Ld	-	650	150	240	3	N/A	1,5a
20D241KJ@	5	150	AC	1	N/A	-40	105	Ld-Ld	-	650	150	240	5	N/A	1,5a
20D270K@	5	17	AC	1	N/A	-40	105	Ld-Ld	-	120	17	27	1	N/A	1,5a
20D270KJ@	5	17	AC	1	N/A	-40	105	Ld-Ld	-	120	17	27	1.5	N/A	1,5a
20D271K@	5	175	AC	1	N/A	-40	105	Ld-Ld	-	740	175	270	3	N/A	1,5a
20D271KJ@	5	175	AC	1	N/A	-40	105	Ld-Ld	-	740	175	270	5	N/A	1,5a
20D301K@	5	190	AC	1	N/A	-40	105	Ld-Ld	-	820	190	300	3	N/A	1,5a
20D301KJ@	5	190	AC	1	N/A	-40	105	Ld-Ld	-	820	190	300	5	N/A	1,5a
20D330K@	5	20	AC	1	N/A	-40	105	Ld-Ld	-	130	20	33	1	N/A	1,5a
20D330KJ@	5	20	AC	1	N/A	-40	105	Ld-Ld	-	130	20	33	1.5	N/A	1,5a
20D331K@	5	210	AC	1	N/A	-40	105	Ld-Ld	-	880	210	330	3	N/A	1,5a
20D331KJ@	5	210	AC	1	N/A	-40	105	Ld-Ld	-	880	210	330	5	N/A	1,5a
20D361K@	5	230	AC	1	N/A	-40	105	Ld-Ld	-	930	230	360	3	N/A	1,5a
20D361KJ@	5	230	AC	1	N/A	-40	105	Ld-Ld	-	930	230	360	5	N/A	1,5a
20D390K@	5	25	AC	1	N/A	-40	105	Ld-Ld	-	160	25	39	1	N/A	1,5a
20D390KJ@	5	25	AC	1	N/A	-40	105	Ld-Ld	-	160	25	39	1.5	N/A	1,5a
20D391K@	5	250	AC	1	N/A	-40	105	Ld-Ld	-	980	250	390	3	N/A	1,5a
20D391KJ@	5	250	AC	1	N/A	-40	105	Ld-Ld	-	980	250	390	5	N/A	1,5a
20D431K@	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1050	275	430	3	N/A	1,5a

20D431KJ@	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1050	275	430	5	N/A	1,5a
20D470K@	5	30	AC	1	N/A	-40	105	Ld-Ld	-	180	30	47	1	N/A	1,5a
20D470KJ@	5	30	AC	1	N/A	-40	105	Ld-Ld	-	180	30	47	1.5	N/A	1,5a
20D471K@	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1110	300	470	3	N/A	1,5a
20D471KJ@	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1110	300	470	5	N/A	1,5a
20D511K@	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1160	320	510	3	N/A	1,5a
20D511KJ@	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1160	320	510	5	N/A	1,5a
20D560K@	5	35	AC	1	N/A	-40	105	Ld-Ld	-	210	35	56	1	N/A	1,5a
20D560KJ@	5	35	AC	1	N/A	-40	105	Ld-Ld	-	210	35	56	1.5	N/A	1,5a
20D561K@	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1240	350	560	3	N/A	1,5a
20D561KJ@	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1240	350	560	5	N/A	1,5a
20D621K@	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1430	385	620	3	N/A	1,5a
20D621KJ@	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1430	385	620	5	N/A	1,5a
20D680K@	5	40	AC	1	N/A	-40	105	Ld-Ld	-	230	40	68	1	N/A	1,5a
20D680KJ@	5	40	AC	1	N/A	-40	105	Ld-Ld	-	230	40	68	1.5	N/A	1,5a
20D681K@	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1530	420	680	3	N/A	1,5a
20D681KJ@	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1530	420	680	5	N/A	1,5a
20D711K@	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1590	440	710	3	N/A	1,5a
20D711KJ@	5	440	AC	1	N/A	-40	105	Ld-Ld	-	1590	440	710	5	N/A	1,5a
20D751K@	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1640	460	750	3	N/A	1,5a
20D751KJ@	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1640	460	750	5	N/A	1,5a
20D781K@	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1700	485	780	3	N/A	1,5a
20D781KJ@	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1700	485	780	5	N/A	1,5a
20D820K@	5	50	AC	1	N/A	-40	105	Ld-Ld	-	400	50	82	3	N/A	1,5a
20D820KJ@	5	50	AC	1	N/A	-40	105	Ld-Ld	-	400	50	82	5	N/A	1,5a
20D821K@	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1770	510	820	3	N/A	1,5a
20D821KJ@	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1770	510	820	5	N/A	1,5a
20D911K@	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1930	550	910	3	N/A	1,5a
20D911KJ@	5	550	AC	1	N/A	-40	105	Ld-Ld	-	1930	550	910	5	N/A	1,5a
20D951K@	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2130	575	950	3	N/A	1,5a
20D951KJ@	5	575	AC	1	N/A	-40	105	Ld-Ld	-	2130	575	950	5	N/A	1,5a
2R1000-5	5	400	AC	1	n/a	-	85	Ld-Ld	-	2150	400	n/a	2	n/a	1,3
2R1000-8	5	400	AC	1	n/a	-	85	Ld-Ld	-	1870	400	n/a	3	n/a	1,3
2R1200-5	5	400	AC	1	n/a	-	85	Ld-Ld	-	2410	400	n/a	2	n/a	1,3
2R1400-5	5	400	AC	1	n/a	-	85	Ld-Ld	-	2670	400	n/a	2	n/a	1,3
2R1400-8	5	400	AC	1	n/a	-	85	Ld-Ld	-	2220	400	n/a	3	n/a	1,3
2R1600-5	5	600	AC	1	n/a	-	85	Ld-Ld	-	2850	600	n/a	2	n/a	1,3
2R1600-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	2630	600	n/a	3	n/a	1,3
2R2000-5	5	600	AC	1	n/a	-	85	Ld-Ld	-	3150	600	n/a	2	n/a	1,3
2R2000-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	2910	600	n/a	3	n/a	1,3
2R2400-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	3770	600	n/a	3	n/a	1,3
2R2500-5	5	600	AC	1	n/a	-	85	Ld-Ld	-	3670	600	n/a	2	n/a	1,3
2R2500-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	3770	600	n/a	3	n/a	1,3
2R2700-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	4160	600	n/a	3	n/a	1,3
2R3000-5	5	600	AC	1	n/a	-	85	Ld-Ld	-	4720	600	n/a	2	n/a	1,3
2R3000-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	4700	600	n/a	3	n/a	1,3

2R3500-5	5	600	AC	1	n/a	-	85	Ld-Ld	-	5770	600	n/a	2	n/a	1,3
2R3500-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	5740	600	n/a	3	n/a	1,3
2R3600-5	5	600	AC	1	n/a	-	85	Ld-Ld	-	5980	600	n/a	2	n/a	1,3
2R3600-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	5740	600	n/a	3	n/a	1,3
2R4000-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	5970	600	n/a	3	n/a	1,3
2R4500-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	6210	600	n/a	3	n/a	1,3
2R5000-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	6450	600	n/a	3	n/a	1,3
2R600-8	5	300	AC	1	n/a	-	85	Ld-Ld	-	1390	300	n/a	3	n/a	1,3
2R6000-8	5	600	AC	1	n/a	-	85	Ld-Ld	-	6520	600	n/a	3	n/a	1,3
2R800-8	5	300	AC	1	n/a	-	85	Ld-Ld	-	1570	300	n/a	3	n/a	1,3
RL1218-420	5	130	AC	1	N/A	-	85	Ld-Ld	-	1710	130	N/A	20	N/A	1, 3
RL1218-470	5	220	AC	1	N/A	-	85	Ld-Ld	-	2420	220	N/A	20	N/A	1, 3
RL1218-600	5	300	AC	1	N/A	-	85	Ld-Ld	-	2440	300	N/A	20	N/A	1, 3
RL1218-700	5	300	AC	1	N/A	-	85	Ld-Ld	-	2500	300	N/A	20	N/A	1, 3
RL1218-800	5	300	AC	1	N/A	-	85	Ld-Ld	-	2570	300	N/A	20	N/A	1, 3
RL1605-500	5	255	AC	1	N/A	-	85	Ld-Ld	-	1760	255	N/A	20	N/A	1, 3
RL1605-600	5	255	AC	1	N/A	-	85	Ld-Ld	-	1730	255	N/A	20	N/A	1, 3
RL1605-800	5	255	AC	1	N/A	-	85	Ld-Ld	-	1760	255	N/A	20	N/A	1, 3
RL2006-420	5	130	AC	1	n/a	-	85	Ld-Ld	-	2230	130	n/a	20	n/a	1,3
RL2006-470	5	220	AC	1	n/a	-	85	Ld-Ld	-	2240	220	n/a	20	n/a	1,3
RL2006-600	5	300	AC	1	n/a	-	85	Ld-Ld	-	2860	300	n/a	20	n/a	1,3
RL2006-800	5	300	AC	1	n/a	-	85	Ld-Ld	-	3450	300	n/a	20	n/a	1,3
RL2510-500	5	255	AC	1	N/A	-	85	Ld-Ld	-	1670	255	N/A	20	N/A	1, 3
RL2510-600	5	255	AC	1	N/A	-	85	Ld-Ld	-	1730	255	N/A	20	N/A	1, 3
RL2510-800	5	255	AC	1	N/A	-	85	Ld-Ld	-	1810	255	N/A	20	N/A	1, 3
TAL22010@	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1000	300	470	3	N/A	1,5a

Notes:


1. Suitable for Factory wiring only.
2. Suitable for Field and Factory wiring.
3. Series External Impedance required, see Electrical Ratings in the Recognition report.
4. Series External Overcurrent Protection required, see Electrical Ratings in the Recognition report.
5. Body of discrete component metal-oxide varistors (MOVs) flammability:
 - a) Min. V-0 or VTM-0.
 - b) Min. V-1 or VTM-1.
 - c) Complies with IEC 60950-1, Edition 2.2, Annex Q/IEC62368-1 Annex G.8.2 needle flame testing requirements.
 - d) Complies with IEC 60065, Edition 7.2, Annex G.1.1 needle flame testing requirements.

SPDs investigated for Type 1 applications are automatically suitable for Type 2 applications and may be marked for SPD Type 1 and/or Type 2 applications. SPDs only marked "SPD Type 2" are not suitable for Type 1 applications.

Where a minimum ambient temperature is not specified, assume 0°C unless the product is marked otherwise or with an Outdoor use Environmental Rating. See Electrical Equipment for Use in Ordinary Locations (AALZ) for details regarding Environmental Ratings.

@ - may be followed by multiple characters, each character is A thru Z or 0 thru 9

Note - All model may be suffixed by X, where X may be blank, A thru Z or 0 thru 9.

Marking: Company name, model designation and the Recognized Component Mark,  on the product or on the smallest unit container in which the product is packaged.

Last Updated on 2018-03-14

[Questions?](#)

[Print this page](#)

[Terms of Use](#)

[Page Top](#)

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

UL permits the reproduction of the material contained in the Online Certification Directory subject to the following conditions: 1. The Guide Information, Assemblies, Constructions, Designs, Systems, and/or Certifications (files) must be presented in their entirety and in a non-misleading manner, without any manipulation of the data (or drawings). 2. The statement "Reprinted from the Online Certifications Directory with permission from UL" must appear adjacent to the extracted material. In addition, the reprinted material must include a copyright notice in the following format: "© 2018 UL LLC".