

## Surge-protective Devices - Component

**COMPANY**

Guangdong Fenghua Advanced Technology Holding Co Ltd. Xianhua New Sensitive Components

**Branch**

2nd Floor 3rd Building  
 Fenghua Electronic Industrial City  
 18th Fenghua Road  
 Zhaoqing, Guangdong Sheng 526020 China

E325462

Cat. No.	SPD Type	Volts (V)	AC/DC/ DC PV	PH	AMPS (A)	AMB		MODE	VPR (Vpk)	MLV (Vpk)	MCOV (V)	Vn (Vdc)	in (kA)	SCCR (kA)	Notes
						Min (°C)	Max (°C)								
<b>FNR-05K101</b>	5	60	AC	1	N/A	-40	85	Ld-Ld	-	370	60	100	0.25	N/A	1, 5a
<b>FNR-05K121</b>	5	75	AC	1	N/A	-40	85	Ld-Ld	-	470	75	120	0.25	N/A	1, 5a
<b>FNR-05K151</b>	5	95	AC	1	N/A	-40	85	Ld-Ld	-	600	95	150	0.25	N/A	1, 5a
<b>FNR-05K180</b>	5	11	AC	1	N/A	-40	85	Ld-Ld	-	70	11	18	0.01	N/A	1, 5a
<b>FNR-05K181</b>	5	115	AC	1	N/A	-40	85	Ld-Ld	-	730	115	180	0.25	N/A	1, 5a
<b>FNR-05K201</b>	5	130	AC	1	N/A	-40	85	Ld-Ld	-	780	130	200	0.25	N/A	1, 5a
<b>FNR-05K220</b>	5	14	AC	1	N/A	-40	85	Ld-Ld	-	60	14	22	0.01	N/A	1, 5a
<b>FNR-05K221</b>	5	140	AC	1	N/A	-40	85	Ld-Ld	-	820	140	220	0.25	N/A	1, 5a
<b>FNR-05K241</b>	5	150	AC	1	N/A	-40	85	Ld-Ld	-	850	150	240	0.25	N/A	1, 5a
<b>FNR-05K270</b>	5	17	AC	1	N/A	-40	85	Ld-Ld	-	70	17	27	0.01	N/A	1, 5a
<b>FNR-05K271</b>	5	175	AC	1	N/A	-40	85	Ld-Ld	-	940	175	270	0.25	N/A	1, 5a
<b>FNR-05K301</b>	5	200	AC	1	n/a	-40	85	Ld-Ld	-	660	200	300	0.25	n/a	1

<b>FNR-05K330</b>	5	20	AC	1	N/A	-40	85	Ld-Ld	-	70	20	33	0.01	N/A	1, 5a
<b>FNR-05K331</b>	5	210	AC	1	n/a	-40	85	Ld-Ld	-	730	210	330	0.25	n/a	1
<b>FNR-05K361</b>	5	230	AC	1	n/a	-40	85	Ld-Ld	-	790	230	360	0.25	n/a	1
<b>FNR-05K390</b>	5	25	AC	1	N/A	-40	85	Ld-Ld	-	90	25	39	0.01	N/A	1, 5a
<b>FNR-05K391</b>	5	250	AC	1	N/A	-40	85	Ld-Ld	-	1200	250	390	0.25	N/A	1, 5a
<b>FNR-05K431</b>	5	275	AC	1	N/A	-40	85	Ld-Ld	-	1290	275	430	0.25	N/A	1, 5a
<b>FNR-05K470</b>	5	30	AC	1	N/A	-40	85	Ld-Ld	-	100	30	47	0.01	N/A	1, 5a
<b>FNR-05K471</b>	5	300	AC	1	n/a	-40	85	Ld-Ld	-	1020	300	470	0.25	n/a	1
<b>FNR-05K560</b>	5	35	AC	1	N/A	-40	85	Ld-Ld	-	110	35	56	0.01	N/A	1, 5a
<b>FNR-05K680</b>	5	40	AC	1	N/A	-40	85	Ld-Ld	-	120	40	68	0.01	N/A	1, 5a
<b>FNR-05K820</b>	5	50	AC	1	N/A	-40	85	Ld-Ld	-	310	50	82	0.25	N/A	1, 5a
<b>FNR-07K101</b>	5	60	AC	1	N/A	-40	85	Ld-Ld	-	250	60	100	0.5	N/A	1, 5a
<b>FNR-07K121</b>	5	75	AC	1	N/A	-40	85	Ld-Ld	-	300	75	120	0.5	N/A	1, 5a
<b>FNR-07K151</b>	5	95	AC	1	N/A	-40	85	Ld-Ld	-	380	95	150	0.5	N/A	1, 5a
<b>FNR-07K180</b>	5	11	AC	1	N/A	-40	85	Ld-Ld	-	60	11	18	0.05	N/A	1, 5a
<b>FNR-07K181</b>	5	115	AC	1	n/a	-40	85	Ld-Ld	-	510	115	180	0.5	n/a	1,5a
<b>FNR-07K201</b>	5	130	AC	1	n/a	-40	85	Ld-Ld	-	470	130	200	0.5	n/a	1
<b>FNR-07K220</b>	5	14	AC	1	N/A	-40	85	Ld-Ld	-	80	14	22	0.05	N/A	1, 5a
<b>FNR-07K221</b>	5	140	AC	1	n/a	-40	105	Ld-Ld	-	520	140	220	0.5	n/a	1,5a
<b>FNR-07K241</b>	5	150	AC	1	N/A	-40	105	Ld-Ld	-	680	150	240	0.5	N/A	1,5a
<b>FNR-07K270</b>	5	17	AC	1	N/A	-40	85	Ld-Ld	-	90	17	27	0.05	N/A	1, 5a

<b>FNR-07K271</b>	5	175	AC	1	N/A	-40	105	Ld-Ld	-	920	175	270	0.5	N/A	1,5a
<b>FNR-07K301</b>	5	195	AC	1	N/A	-40	105	Ld-Ld	-	1030	195	300	0.5	N/A	1,5a
<b>FNR-07K330</b>	5	20	AC	1	N/A	-40	85	Ld-Ld	-	90	20	33	0.05	N/A	1, 5a
<b>FNR-07K331</b>	5	210	AC	1	N/A	-40	105	Ld-Ld	-	1100	210	330	0.5	N/A	1,5a
<b>FNR-07K361</b>	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1210	230	360	0.5	N/A	1,5a
<b>FNR-07K390</b>	5	25	AC	1	N/A	-40	85	Ld-Ld	-	110	25	39	0.05	N/A	1, 5a
<b>FNR-07K391</b>	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1320	250	390	0.5	N/A	1,5a
<b>FNR-07K431</b>	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1450	275	430	0.5	N/A	1,5a
<b>FNR-07K470</b>	5	30	AC	1	N/A	-40	85	Ld-Ld	-	120	30	47	0.05	N/A	1, 5a
<b>FNR-07K471</b>	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1510	300	470	0.5	N/A	1,5a
<b>FNR-07K511</b>	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1560	320	510	0.5	N/A	1,5a
<b>FNR-07K560</b>	5	35	AC	1	N/A	-40	85	Ld-Ld	-	130	35	56	0.05	N/A	1, 5a
<b>FNR-07K561</b>	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1630	350	560	0.5	N/A	1,5a
<b>FNR-07K621</b>	5	385	AC	1	N/A	-40	85	Ld-Ld	-	1720	385	620	0.5	N/A	1, 5a
<b>FNR-07K680</b>	5	40	AC	1	N/A	-40	85	Ld-Ld	-	140	40	68	0.05	N/A	1, 5a
<b>FNR-07K681</b>	5	420	AC	1	N/A	-40	85	Ld-Ld	-	1800	420	680	0.5	N/A	1, 5a
<b>FNR-07K820</b>	5	50	AC	1	N/A	-40	85	Ld-Ld	-	210	50	82	0.5	N/A	1, 5a
<b>FNR-07T271K</b>	5	175	AC	1	n/a	-40	125	Ld-Ld	-	610	175	270	0.5	N/A	1,5a
<b>FNR-07T330K</b>	5	20	AC	1	n/a	-40	125	Ld-Ld	-	120	20	33	0.5	N/A	1,5a
<b>FNR-07T471K</b>	5	300	AC	1	n/a	-40	125	Ld-Ld	-	1030	300	470	0.5	N/A	1,5a
<b>FNR-10C102K</b>	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2250	625	1000	2	N/A	1, 5a

<b>FNR-10C271K</b>	5	175	AC	1	N/A	-40	105	Ld-Ld	-	860	175	270	2	N/A	1, 5a
<b>FNR-10C301K</b>	5	195	AC	1	N/A	-40	105	Ld-Ld	-	870	195	300	2	N/A	1, 5a
<b>FNR-10C331K</b>	5	210	AC	1	N/A	-40	105	Ld-Ld	-	880	210	330	2	N/A	1, 5a
<b>FNR-10C391K</b>	5	250	AC	1	N/A	-40	105	Ld-Ld	-	960	250	390	2	N/A	1, 5a
<b>FNR-10C431K</b>	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1050	275	430	2	N/A	1, 5a
<b>FNR-10C471K</b>	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1140	300	470	2	N/A	1, 5a
<b>FNR-10C511K</b>	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1210	320	510	2	N/A	1, 5a
<b>FNR-10C561K</b>	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1310	350	560	2	N/A	1, 5a
<b>FNR-10C781K</b>	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1790	485	780	2	N/A	1, 5a
<b>FNR-10C911K</b>	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2000	550	910	2	N/A	1, 5a
<b>FNR-10K101</b>	5	60	AC	1	N/A	-40	105	Ld-Ld	-	470	60	100	3	N/A	1,5a
<b>FNR-10K102</b>	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2840	625	1000	3	N/A	1,5a
<b>FNR-10K112</b>	5	680	AC	1	N/A	-40	105	Ld-Ld	-	3060	680	1100	3	N/A	1,5a
<b>FNR-10K121</b>	5	75	AC	1	N/A	-40	85	Ld-Ld	-	510	75	120	3	N/A	1,5a
<b>FNR-10K151</b>	5	95	AC	1	N/A	-40	85	Ld-Ld	-	560	95	150	3	N/A	1, 5a
<b>FNR-10K180</b>	5	11	AC	1	N/A	-40	85	Ld-Ld	-	60	11	18	0.05	N/A	1, 5a
<b>FNR-10K181</b>	5	115	AC	1	n/a	-40	85	Ld-Ld	-	520	115	180	1.5	n/a	1
<b>FNR-10K182</b>	5	1000	AC	1	N/A	-40	105	Ld-Ld	-	4350	1000	1800	3	N/A	1,5a
<b>FNR-10K201</b>	5	130	AC	1	n/a	-40	85	Ld-Ld	-	610	130	200	1.5	n/a	1
<b>FNR-10K220</b>	5	14	AC	1	N/A	-40	85	Ld-Ld	-	60	14	22	0.05	N/A	1, 5a
<b>FNR-10K221</b>	5	140	AC	1	N/A	-40	105	Ld-Ld	-	680	140	220	3	N/A	1,5a

<b>FNR-10K241</b>	5	150	AC	1	N/A	-40	105	Ld-Ld	-	760	150	240	3	N/A	1,5a
<b>FNR-10K270</b>	5	17	AC	1	N/A	-40	85	Ld-Ld	-	70	17	27	0.05	N/A	1, 5a
<b>FNR-10K271</b>	5	175	AC	1	N/A	-40	105	Ld-Ld	-	880	175	270	3	N/A	1,5a
<b>FNR-10K301</b>	5	200	AC	1	n/a	-40	85	Ld-Ld	-	810	200	300	1.5	n/a	1
<b>FNR-10K330</b>	5	20	AC	1	N/A	-40	85	Ld-Ld	-	80	20	33	0.05	N/A	1, 5a
<b>FNR-10K331</b>	5	210	AC	1	N/A	-40	85	Ld-Ld	-	1040	210	330	3	N/A	1, 5a
<b>FNR-10K361</b>	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1080	230	360	3	N/A	1, 5a
<b>FNR-10K390</b>	5	25	AC	1	N/A	-40	85	Ld-Ld	-	90	25	39	0.05	N/A	1, 5a
<b>FNR-10K391</b>	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1230	250	390	3	N/A	1,5a
<b>FNR-10K431</b>	5	275	AC	1	n/a	-40	105	Ld-Ld	-	1290	275	430	3	n/a	1,5a
<b>FNR-10K470</b>	5	30	AC	1	N/A	-40	85	Ld-Ld	-	110	30	47	0.05	N/A	1, 5a
<b>FNR-10K471</b>	5	300	AC	1	n/a	-40	105	Ld-Ld	-	1390	300	470	3	n/a	1,5a
<b>FNR-10K511</b>	5	320	AC	1	n/a	-40	105	Ld-Ld	-	1470	320	510	3	n/a	1,5a
<b>FNR-10K560</b>	5	35	AC	1	N/A	-40	85	Ld-Ld	-	120	35	56	0.05	N/A	1, 5a
<b>FNR-10K561</b>	5	350	AC	1	n/a	-40	105	Ld-Ld	-	1600	350	560	3	n/a	1,5a
<b>FNR-10K621</b>	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1860	385	620	3	N/A	1,5a
<b>FNR-10K680</b>	5	40	AC	1	N/A	-40	85	Ld-Ld	-	140	40	68	0.05	N/A	1, 5a
<b>FNR-10K681</b>	5	420	AC	1	N/A	-40	105	Ld-Ld	-	2020	420	680	3	N/A	1,5a
<b>FNR-10K751</b>	5	460	AC	1	N/A	-40	105	Ld-Ld	-	2180	460	750	3	N/A	1,5a
<b>FNR-10K781</b>	5	485	AC	1	N/A	-40	105	Ld-Ld	-	2280	485	780	3	N/A	1,5a
<b>FNR-10K820</b>	5	50	AC	1	N/A	-40	105	Ld-Ld	-	450	50	82	3	N/A	1,5a

<b>FNR-10K821</b>	5	510	AC	1	N/A	-40	105	Ld-Ld	-	2380	510	820	3	N/A	1,5a
<b>FNR-10K911</b>	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2540	550	910	3	N/A	1,5a
<b>FNR-10T121K</b>	5	75	AC	1	N/A	-40	125	Ld-Ld	-	300	75	120	2	N/A	1, 5a
<b>FNR-10T271K</b>	5	175	AC	1	N/A	-40	125	Ld-Ld	-	670	175	270	2	N/A	1, 5a
<b>FNR-10T361K</b>	5	230	AC	1	N/A	-40	125	Ld-Ld	-	930	230	360	2	N/A	1, 5a
<b>FNR-10T471K</b>	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1270	300	470	2	N/A	1, 5a
<b>FNR-10T561K</b>	5	350	AC	1	n/a	-40	125	Ld-Ld	-	1510	350	560	3	N/A	1,5a
<b>FNR-10T621K</b>	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1600	385	620	2	N/A	1, 5a
<b>FNR-10T681K</b>	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1680	420	680	2	N/A	1, 5a
<b>FNR-10T751K</b>	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1780	460	750	2	N/A	1, 5a
<b>FNR-10T821K</b>	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1910	510	820	2	N/A	1, 5a
<b>FNR-14C102K</b>	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2430	625	1000	3	N/A	1, 5a
<b>FNR-14C271K</b>	5	175	AC	1	N/A	-40	105	Ld-Ld	-	920	175	270	3	N/A	1, 5a
<b>FNR-14C301K</b>	5	195	AC	1	N/A	-40	105	Ld-Ld	-	940	195	300	3	N/A	1, 5a
<b>FNR-14C331K</b>	5	210	AC	1	N/A	-40	105	Ld-Ld	-	960	210	330	3	N/A	1, 5a
<b>FNR-14C391K</b>	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1050	250	390	3	N/A	1, 5a
<b>FNR-14C431K</b>	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1130	275	430	3	N/A	1, 5a
<b>FNR-14C621K</b>	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1510	385	620	3	N/A	1, 5a
<b>FNR-14C681K</b>	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1630	420	680	3	N/A	1, 5a
<b>FNR-14C751K</b>	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1770	460	750	3	N/A	1, 5a
<b>FNR-14C781K</b>	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1860	485	780	3	N/A	1, 5a

<b>FNR-14C821K</b>	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1940	510	820	3	N/A	1, 5a
<b>FNR-14C911K</b>	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2110	550	910	3	N/A	1, 5a
<b>FNR-14K101</b>	5	60	AC	1	N/A	-40	105	Ld-Ld	-	490	60	100	3	N/A	1,5a
<b>FNR-14K102</b>	5	625	AC	1	N/A	-40	85	Ld-Ld	-	2470	625	1000	3	N/A	1, 5a
<b>FNR-14K112</b>	5	680	AC	1	N/A	-40	85	Ld-Ld	-	2670	680	1100	3	N/A	1, 5a
<b>FNR-14K121</b>	5	75	AC	1	N/A	-40	85	Ld-Ld	-	520	75	120	3	N/A	1, 5a
<b>FNR-14K151</b>	5	95	AC	1	N/A	-40	85	Ld-Ld	-	560	95	150	3	N/A	1, 5a
<b>FNR-14K180</b>	5	11	AC	1	N/A	-40	85	Ld-Ld	-	120	11	18	1	N/A	1,5a
<b>FNR-14K181</b>	5	115	AC	1	N/A	-40	85	Ld-Ld	-	640	115	180	3	N/A	1, 5a
<b>FNR-14K182</b>	5	1000	AC	1	N/A	-40	85	Ld-Ld	-	3840	1000	1800	3	N/A	1, 5a
<b>FNR-14K201</b>	5	130	AC	1	N/A	-40	85	Ld-Ld	-	690	130	200	3	N/A	1, 5a
<b>FNR-14K220</b>	5	14	AC	1	N/A	-40	85	Ld-Ld	-	130	14	22	1	N/A	1, 5a
<b>FNR-14K221</b>	5	140	AC	1	N/A	-40	85	Ld-Ld	-	720	140	220	3	N/A	1, 5a
<b>FNR-14K241</b>	5	150	AC	1	N/A	-40	85	Ld-Ld	-	750	150	240	3	N/A	1, 5a
<b>FNR-14K270</b>	5	17	AC	1	N/A	-40	85	Ld-Ld	-	140	17	27	1	N/A	1, 5a
<b>FNR-14K271</b>	5	175	AC	1	N/A	-40	85	Ld-Ld	-	820	175	270	3	N/A	1, 5a
<b>FNR-14K301</b>	5	195	AC	1	N/A	-40	85	Ld-Ld	-	890	195	300	3	N/A	1, 5a
<b>FNR-14K330</b>	5	20	AC	1	N/A	-40	85	Ld-Ld	-	160	20	33	1	N/A	1, 5a
<b>FNR-14K331</b>	5	210	AC	1	N/A	-40	85	Ld-Ld	-	930	210	330	3	N/A	1, 5a
<b>FNR-14K361</b>	5	230	AC	1	N/A	-40	105	Ld-Ld	-	990	230	360	3	N/A	1,5a
<b>FNR-14K390</b>	5	25	AC	1	N/A	-40	85	Ld-Ld	-	180	25	39	1	N/A	1, 5a

<b>FNR-14K391</b>	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1050	250	390	3	N/A	1,5a
<b>FNR-14K431</b>	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1130	275	430	3	N/A	1,5a
<b>FNR-14K470</b>	5	30	AC	1	N/A	-40	85	Ld-Ld	-	200	30	47	1	N/A	1, 5a
<b>FNR-14K471</b>	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1240	300	470	3	N/A	1,5a
<b>FNR-14K511</b>	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1320	320	510	3	N/A	1,5a
<b>FNR-14K560</b>	5	35	AC	1	N/A	-40	85	Ld-Ld	-	220	35	56	1	N/A	1, 5a
<b>FNR-14K561</b>	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1430	350	560	3	N/A	1,5a
<b>FNR-14K621</b>	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1520	385	620	3	N/A	1, 5a
<b>FNR-14K680</b>	5	40	AC	1	N/A	-40	85	Ld-Ld	-	240	40	68	1	N/A	1, 5a
<b>FNR-14K681</b>	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1690	420	680	3	N/A	1,5a
<b>FNR-14K751</b>	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1860	460	750	3	N/A	1,5a
<b>FNR-14K781</b>	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1950	485	780	3	N/A	1,5a
<b>FNR-14K820</b>	5	50	AC	1	N/A	-40	105	Ld-Ld	-	470	50	82	3	N/A	1,5a
<b>FNR-14K821</b>	5	510	AC	1	N/A	-40	105	Ld-Ld	-	2040	510	820	3	N/A	1,5a
<b>FNR-14K911</b>	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2190	550	910	3	N/A	1,5a
<b>FNR-14T271K</b>	5	175	AC	1	N/A	-40	125	Ld-Ld	-	750	175	270	3	N/A	1, 5a
<b>FNR-14T361K</b>	5	230	AC	1	N/A	-40	125	Ld-Ld	-	940	230	360	3	N/A	1, 5a
<b>FNR-14T471K</b>	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1180	300	470	3	N/A	1, 5a
<b>FNR-14T511K</b>	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1250	320	510	3	N/A	1, 5a
<b>FNR-14T561K</b>	5	350	AC	1	n/a	-40	125	Ld-Ld	-	1350	350	560	3	N/A	1,5a
<b>FNR-14T621K</b>	5	385	AC	1	n/a	-40	125	Ld-Ld	-	1450	385	630	3	N/A	1,5a

<b>FNR-14T681K</b>	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1590	420	680	3	N/A	1, 5a
<b>FNR-14T751K</b>	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1750	460	750	3	N/A	1, 5a
<b>FNR-14T821K</b>	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1960	510	820	3	N/A	1, 5a
<b>FNR-20C102K</b>	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2520	625	1000	5	N/A	1, 5a
<b>FNR-20C271K</b>	5	175	AC	1	N/A	-40	105	Ld-Ld	-	860	175	270	5	N/A	1, 5a
<b>FNR-20C361K</b>	5	230	AC	1	N/A	-40	105	Ld-Ld	-	1100	230	360	5	N/A	1, 5a
<b>FNR-20C391K</b>	5	250	AC	1	N/A	-40	105	Ld-Ld	-	1180	250	390	5	N/A	1, 5a
<b>FNR-20C431K</b>	5	275	AC	1	N/A	-40	105	Ld-Ld	-	1290	275	430	5	N/A	1, 5a
<b>FNR-20C471K</b>	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1400	300	470	5	N/A	1, 5a
<b>FNR-20C511K</b>	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1490	320	510	5	N/A	1, 5a
<b>FNR-20C561K</b>	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1620	350	560	5	N/A	1, 5a
<b>FNR-20C621K</b>	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1740	385	620	5	N/A	1, 5a
<b>FNR-20C681K</b>	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1850	420	680	5	N/A	1, 5a
<b>FNR-20C751K</b>	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1980	460	750	5	N/A	1, 5a
<b>FNR-20C781K</b>	5	485	AC	1	N/A	-40	105	Ld-Ld	-	2060	485	780	5	N/A	1, 5a
<b>FNR-20C821K</b>	5	510	AC	1	N/A	-40	105	Ld-Ld	-	2150	510	820	5	N/A	1, 5a
<b>FNR-20C911K</b>	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2280	550	910	5	N/A	1, 5a
<b>FNR-20K101</b>	5	60	AC	1	N/A	-40	105	Ld-Ld	-	380	60	100	5	N/A	1,5a
<b>FNR-20K102</b>	5	625	AC	1	N/A	-40	105	Ld-Ld	-	2430	625	1000	5	N/A	1,5a
<b>FNR-20K112</b>	5	680	AC	1	N/A	-40	85	Ld-Ld	-	2630	680	1100	5	N/A	1,5a
<b>FNR-20K121</b>	5	75	AC	1	N/A	-40	85	Ld-Ld	-	430	75	120	5	N/A	1, 5a

<b>FNR-20K151</b>	5	95	AC	1	N/A	-40	85	Ld-Ld	-	490	95	150	5	N/A	1, 5a
<b>FNR-20K180</b>	5	11	AC	1	N/A	-40	85	Ld-Ld	-	180	11	18	2	N/A	1, 5a
<b>FNR-20K181</b>	5	115	AC	1	N/A	-40	85	Ld-Ld	-	570	115	180	5	N/A	1, 5a
<b>FNR-20K182</b>	5	1000	AC	1	N/A	-40	85	Ld-Ld	-	3810	1000	1800	5	N/A	1, 5a
<b>FNR-20K201</b>	5	130	AC	1	N/A	-40	85	Ld-Ld	-	620	130	200	5	N/A	1, 5a
<b>FNR-20K220</b>	5	14	AC	1	N/A	-40	85	Ld-Ld	-	190	14	22	2	N/A	1, 5a
<b>FNR-20K221</b>	5	140	AC	1	N/A	-40	85	Ld-Ld	-	660	140	220	5	N/A	1, 5a
<b>FNR-20K241</b>	5	150	AC	1	N/A	-40	85	Ld-Ld	-	700	150	240	5	N/A	1, 5a
<b>FNR-20K270</b>	5	17	AC	1	N/A	-40	85	Ld-Ld	-	200	17	27	2	N/A	1, 5a
<b>FNR-20K271</b>	5	175	AC	1	N/A	-40	85	Ld-Ld	-	790	175	270	5	N/A	1, 5a
<b>FNR-20K301</b>	5	195	AC	1	N/A	-40	85	Ld-Ld	-	860	195	300	5	N/A	1, 5a
<b>FNR-20K330</b>	5	20	AC	1	N/A	-40	85	Ld-Ld	-	210	20	33	2	N/A	1, 5a
<b>FNR-20K331</b>	5	210	AC	1	N/A	-40	85	Ld-Ld	-	910	210	330	5	N/A	1, 5a
<b>FNR-20K361</b>	5	230	AC	1	N/A	-40	85	Ld-Ld	-	990	230	360	5	N/A	1, 5a
<b>FNR-20K390</b>	5	25	AC	1	N/A	-40	85	Ld-Ld	-	230	25	39	2	N/A	1, 5a
<b>FNR-20K391</b>	5	250	AC	1	N/A	-40	85	Ld-Ld	-	1060	250	390	5	N/A	1, 5a
<b>FNR-20K431</b>	5	275	AC	1	n/a	-40	105	Ld-Ld	-	1070	275	430	5	n/a	1,5a
<b>FNR-20K470</b>	5	30	AC	1	N/A	-40	85	Ld-Ld	-	250	30	47	2	N/A	1, 5a
<b>FNR-20K471</b>	5	300	AC	1	n/a	-40	105	Ld-Ld	-	1180	300	470	5	n/a	1,5a
<b>FNR-20K511</b>	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1310	320	510	5	N/A	1,5a
<b>FNR-20K560</b>	5	35	AC	1	N/A	-40	85	Ld-Ld	-	270	35	56	2	N/A	1, 5a

<b>FNR-20K561</b>	5	350	AC	1	n/a	-40	105	Ld-Ld	-	1390	350	560	5	n/a	1,5a
<b>FNR-20K621</b>	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1550	385	620	5	N/A	1,5a
<b>FNR-20K680</b>	5	40	AC	1	N/A	-40	85	Ld-Ld	-	290	40	68	2	N/A	1, 5a
<b>FNR-20K681</b>	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1680	420	680	5	N/A	1,5a
<b>FNR-20K751</b>	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1820	460	750	5	N/A	1,5a
<b>FNR-20K781</b>	5	485	AC	1	N/A	-40	105	Ld-Ld	-	1920	485	780	5	N/A	1,5a
<b>FNR-20K820</b>	5	50	AC	1	N/A	-40	105	Ld-Ld	-	350	50	82	5	N/A	1,5a
<b>FNR-20K821</b>	5	510	AC	1	N/A	-40	105	Ld-Ld	-	2010	510	820	5	N/A	1,5a
<b>FNR-20K911</b>	5	550	AC	1	N/A	-40	105	Ld-Ld	-	2160	550	910	5	N/A	1,5a
<b>FNR-20T102K</b>	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2390	625	1000	5	N/A	1, 5a
<b>FNR-20T471K</b>	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1160	300	470	5	N/A	1, 5a
<b>FNR-20T511K</b>	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1240	320	510	5	N/A	1, 5a
<b>FNR-20T561K</b>	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1350	350	560	5	N/A	1, 5a
<b>FNR-20T621K</b>	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1480	385	620	5	N/A	1, 5a
<b>FNR-20T751K</b>	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1770	460	750	5	N/A	1, 5a
<b>FNR-20T821K</b>	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1950	510	820	5	N/A	1, 5a
<b>FNR-25K101</b>	5	60	AC	1	N/A	-40	85	Ld-Ld	-	480	60	100	10	N/A	1, 5a
<b>FNR-25K361</b>	5	230	AC	1	N/A	-40	85	Ld-Ld	-	1070	230	360	10	N/A	1, 5a
<b>FNR-25K391</b>	5	250	AC	1	N/A	-40	85	Ld-Ld	-	1150	250	390	10	N/A	1, 5a
<b>FNR-25K431</b>	5	275	AC	1	N/A	-40	85	Ld-Ld	-	1240	275	430	10	N/A	1, 5a
<b>FNR-25K471</b>	5	300	AC	1	N/A	-40	85	Ld-Ld	-	1330	300	470	10	N/A	1, 5a

<b>FNR-25K511</b>	5	320	AC	1	N/A	-40	85	Ld-Ld	-	1410	320	510	10	N/A	1, 5a
<b>FNR-25K561</b>	5	350	AC	1	N/A	-40	85	Ld-Ld	-	1500	350	560	10	N/A	1, 5a
<b>FNR-25K621</b>	5	385	AC	1	N/A	-40	85	Ld-Ld	-	1610	385	620	10	N/A	1, 5a
<b>FNR-25K681</b>	5	420	AC	1	N/A	-40	85	Ld-Ld	-	1710	420	680	10	N/A	1, 5a
<b>FNR-25K751</b>	5	460	AC	1	N/A	-40	85	Ld-Ld	-	1830	460	750	10	N/A	1, 5a
<b>FNR-25K781</b>	5	485	AC	1	N/A	-40	85	Ld-Ld	-	1910	485	780	10	N/A	1, 5a
<b>FNR-25K821</b>	5	510	AC	1	N/A	-40	85	Ld-Ld	-	1980	510	820	10	N/A	1, 5a
<b>FNR-32K361</b>	5	230	AC	1	N/A	-40	85	Ld-Ld	-	1260	230	360	20	N/A	1, 5a
<b>FNR-32K391</b>	5	250	AC	1	N/A	-40	85	Ld-Ld	-	1220	250	390	20	N/A	1, 5a
<b>FNR-32K431</b>	5	275	AC	1	N/A	-40	85	Ld-Ld	-	1400	275	430	20	N/A	1, 5a
<b>FNR-32K471</b>	5	300	AC	1	N/A	-40	85	Ld-Ld	-	1580	300	470	20	N/A	1, 5a
<b>FNR-32K511</b>	5	320	AC	1	N/A	-40	85	Ld-Ld	-	1720	320	510	20	N/A	1, 5a
<b>FNR-32K561</b>	5	350	AC	1	N/A	-40	85	Ld-Ld	-	1820	350	560	20	N/A	1, 5a
<b>FNR-32K621</b>	5	385	AC	1	N/A	-40	85	Ld-Ld	-	1950	385	620	20	N/A	1, 5a
<b>FNR-32K681</b>	5	420	AC	1	N/A	-40	85	Ld-Ld	-	2070	420	680	20	N/A	1, 5a
<b>FNR-32K751</b>	5	460	AC	1	N/A	-40	85	Ld-Ld	-	2210	460	750	20	N/A	1, 5a
<b>FNR-32K781</b>	5	485	AC	1	N/A	-40	85	Ld-Ld	-	2290	485	780	20	N/A	1, 5a
<b>FNR-32K821</b>	5	510	AC	1	N/A	-40	85	Ld-Ld	-	2380	510	820	20	N/A	1, 5a
<b>FNR-40K361</b>	5	230	AC	1	N/A	-40	85	Ld-Ld	-	1310	230	360	20	N/A	1,5a
<b>FNR-40K471</b>	5	300	AC	1	N/A	-40	85	Ld-Ld	-	1600	300	470	20	N/A	1,5a
<b>FNR-40K561</b>	5	350	AC	1	N/A	-40	85	Ld-Ld	-	1810	350	560	20	N/A	1,5a

<b>FNR-40K621</b>	5	380	AC	1	N/A	-40	85	Ld-Ld	-	1960	385	620	20	N/A	1, 5a
<b>FNR-40K681</b>	5	420	AC	1	N/A	-40	85	Ld-Ld	-	2100	420	680	20	N/A	1, 5a
<b>FNR-40K751</b>	5	460	AC	1	N/A	-40	85	Ld-Ld	-	2250	460	750	20	N/A	1, 5a
<b>FNR-40K781</b>	5	485	AC	1	N/A	-40	85	Ld-Ld	-	2350	485	780	20	N/A	1, 5a
<b>FNR-40K821</b>	5	510	AC	1	N/A	-40	85	Ld-Ld	-	2450	510	820	20	N/A	1, 5a
<b>MYN15621KM</b>	5	385	AC	1	n/a	-40	85	Ld-Ld	-	1500	385	620	3	n/a	1
<b>MYN15821KM</b>	5	510	AC	1	n/a	-40	85	Ld-Ld	-	1900	510	820	3	n/a	1
<b>"MOV"</b>															
<b>FNR-07H241K</b>	5	150	AC	1	N/A	-40	125	Ld-Ld	-	510	150	240	0.5	N/A	1, 5a
<b>FNR-07H271K</b>	5	175	AC	1	N/A	-40	125	Ld-Ld	-	590	175	270	0.5	N/A	1, 5a
<b>FNR-07H361K</b>	5	230	AC	1	N/A	-40	125	Ld-Ld	-	770	230	360	0.5	N/A	1, 5a
<b>FNR-07H431K</b>	5	275	AC	1	N/A	-40	125	Ld-Ld	-	920	275	430	0.5	N/A	1, 5a
<b>FNR-07H471K</b>	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1010	300	470	0.5	N/A	1, 5a
<b>FNR-07H511K</b>	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1070	320	510	0.5	N/A	1, 5a
<b>FNR-07H561K</b>	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1170	350	560	0.5	N/A	1, 5a
<b>FNR-07H621K</b>	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1290	385	620	0.5	N/A	1, 5a
<b>FNR-10C361K</b>	5	230	AC	1	N/A	-40	105	Ld-Ld	-	890	230	360	2	N/A	1, 5a
<b>FNR-10C621K</b>	5	385	AC	1	N/A	-40	105	Ld-Ld	-	1430	385	620	2	N/A	1, 5a
<b>FNR-10C681K</b>	5	420	AC	1	N/A	-40	105	Ld-Ld	-	1560	420	680	2	N/A	1, 5a
<b>FNR-10C751K</b>	5	460	AC	1	N/A	-40	105	Ld-Ld	-	1700	460	750	2	N/A	1, 5a
<b>FNR-10C821K</b>	5	510	AC	1	N/A	-40	105	Ld-Ld	-	1870	510	820	2	N/A	1, 5a
<b>FNR-10H271K</b>	5	175	AC	1	N/A	-40	125	Ld-Ld	-	690	175	270	2	N/A	1, 5a

<b>FNR-10H361K</b>	5	230	AC	1	N/A	-40	125	Ld-Ld	-	880	230	360	2	N/A	1, 5a
<b>FNR-10H471K</b>	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1110	300	470	2	N/A	1, 5a
<b>FNR-10H511K</b>	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1180	320	510	2	N/A	1, 5a
<b>FNR-10H561K</b>	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1280	350	560	2	N/A	1, 5a
<b>FNR-10H621K</b>	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1400	385	620	2	N/A	1, 5a
<b>FNR-10H681K</b>	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1520	420	680	2	N/A	1, 5a
<b>FNR-10H821K</b>	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1820	510	820	2	N/A	1, 5a
<b>FNR-14C361K</b>	5	230	AC	1	N/A	-40	105	Ld-Ld	-	980	230	360	3	N/A	1, 5a
<b>FNR-14C471K</b>	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1220	300	470	3	N/A	1, 5a
<b>FNR-14C511K</b>	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1290	320	510	3	N/A	1, 5a
<b>FNR-14C561K</b>	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1390	350	560	3	N/A	1, 5a
<b>FNR-14H271K</b>	5	175	AC	1	N/A	-40	125	Ld-Ld	-	720	175	270	3	N/A	1, 5a
<b>FNR-14H361K</b>	5	230	AC	1	N/A	-40	125	Ld-Ld	-	900	230	360	3	N/A	1, 5a
<b>FNR-14H471K</b>	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1120	300	470	3	N/A	1, 5a
<b>FNR-14H511K</b>	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1190	320	510	3	N/A	1, 5a
<b>FNR-14H561K</b>	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1280	350	560	3	N/A	1, 5a
<b>FNR-14H621K</b>	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1400	385	620	3	N/A	1, 5a
<b>FNR-14H681K</b>	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1510	420	680	3	N/A	1, 5a
<b>FNR-14H821K</b>	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1800	510	820	3	N/A	1, 5a
<b>FNR-20H102K</b>	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2230	625	1000	5	N/A	1, 5a
<b>FNR-20H471K</b>	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1210	300	470	5	N/A	1, 5a

<b>FNR-20H561K</b>	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1370	350	560	5	N/A	1, 5a
<b>FNR-20H621K</b>	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1480	385	620	5	N/A	1, 5a
<b>FNR-20H681K</b>	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1590	420	680	5	N/A	1, 5a
<b>FNR-20H751K</b>	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1710	460	750	5	N/A	1, 5a
<b>FNR-20H821K</b>	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1870	510	820	5	N/A	1, 5a
<b>FNR-20H911K</b>	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2000	550	910	5	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.
6. Complies with Stress Test Qualification per AEC-Q200 Rev D.
7. Suitable for Damp Location use:
  - a) 85C/85% relative humidity
  - b) 40C/93% relative humidity

Marking: Company name and model designation and the Recognized Component Mark, .

Last Updated on 2023-06-04

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