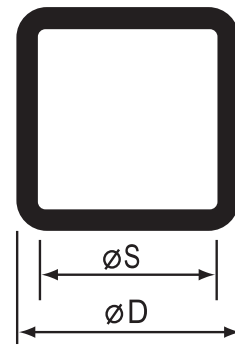
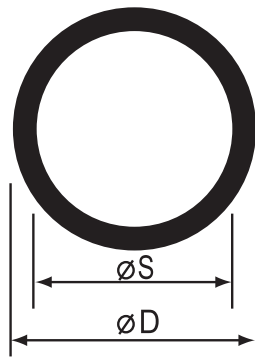


A TYPE(SILVER DISC) 銀片型

特性 Features

- 提供未組裝電阻片,供用戶按其需要組裝
- 組裝時,電極可焊接,也可壓力接觸
- 工作電壓範圍寬,最大連續交流工作電壓130V~680V
- 通流量和額定能量大,適用工業設備
- Unpackaged discs for unique packing by customers
- Solder able electrode finish or pressure contact
- Wide operating voltage (AC 130V~680V)
- High surge current and energy capability for industrial equipments

外型尺寸 Dimensions



Symbol	D	S
CNR25D	25 ± 0.5	21.0 ± 1.0
CNR32D	32 ± 0.5	28.0 ± 1.0
CNR40D	40 ± 1.0	36.0 ± 1.0
CNR53D	53 ± 1.0	46.0 ± 1.0

Symbol	D	S
CNR18S	18.0 ± 0.5	16.0 ± 1.0
CNR20S	20.0 ± 0.5	17.0 ± 1.0
CNR22S	22.0 ± 0.5	18.0 ± 1.0
CNR40LS	33.0 ± 0.5	29.5 ± 1.0

型號命名法 Explanations of Part Numbers

CNR	25	D	385	A	T																																
Common Code 產品類別代碼	Nominal Disc Diameter 瓷片名義直徑	Disc Shape 瓷片形狀	Max Allowable AC Voltage 最大連續交流電壓	Electrode 電極	Terminals 引出片																																
CeNtRa Surge protective device 舜全低壓避雷器	<table border="1"> <tr><td>20</td><td>20mm</td></tr> <tr><td>22</td><td>22mm</td></tr> <tr><td>25</td><td>25mm</td></tr> <tr><td>32</td><td>32mm</td></tr> <tr><td>40</td><td>40mm</td></tr> <tr><td>53</td><td>53mm</td></tr> </table>	20	20mm	22	22mm	25	25mm	32	32mm	40	40mm	53	53mm	<table border="1"> <tr><td>D</td><td>Disc 圓形</td></tr> <tr><td>LS</td><td>Square 方形</td></tr> </table>	D	Disc 圓形	LS	Square 方形	<table border="1"> <tr><td>35</td><td>35 Vac</td></tr> <tr><td>130</td><td>130Vac</td></tr> <tr><td>385</td><td>385Vac</td></tr> <tr><td>680</td><td>680Vac</td></tr> <tr><td>1000</td><td>1000Vac</td></tr> </table>	35	35 Vac	130	130Vac	385	385Vac	680	680Vac	1000	1000Vac	<table border="1"> <tr><td>A</td><td>Silver 銀片</td></tr> </table>	A	Silver 銀片	<table border="1"> <tr><td>T</td><td>單引出片</td></tr> <tr><td>TD</td><td>雙引出片</td></tr> </table>	T	單引出片	TD	雙引出片
20	20mm																																				
22	22mm																																				
25	25mm																																				
32	32mm																																				
40	40mm																																				
53	53mm																																				
D	Disc 圓形																																				
LS	Square 方形																																				
35	35 Vac																																				
130	130Vac																																				
385	385Vac																																				
680	680Vac																																				
1000	1000Vac																																				
A	Silver 銀片																																				
T	單引出片																																				
TD	雙引出片																																				

C TYPE(EPOXY COATING) 環氧樹脂包封型



特性 Features

- 阻燃環氧樹脂封裝
- Epoxy resin coating
- 通流量大，8/20 μ s 沖擊電流20kA~70kA
- High peak surge current, 8/20 μ s, 20kA~70kA
- 引出端為扁截面引片
- Strap terminal
- 符合UL1449
- Approved to UL1449

應用領域 Applications

- 通信電源防雷保護
- Protection of Communication against lightning
- 工業配電盤(櫃)
- Industrial Power distributors
- 鐵路、公路、航空信號系統
- Railway, Highway and Air-signal
- 大樓供電電源入端防雷
- Building Power distributors input against lightning

型號命名法 Explanations of Part Numbers

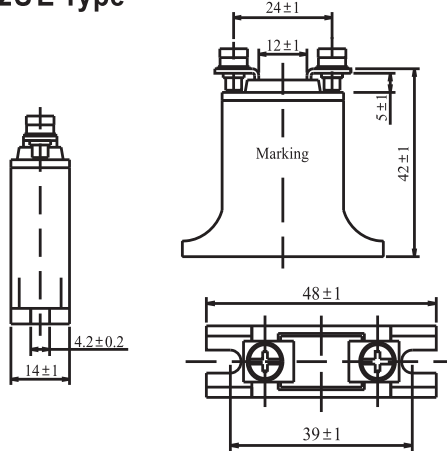
CNR	25	D	385	C	L
Common Code 產品類別代碼	Nominal Disc Diameter 瓷片名義直徑	Disc Shape 瓷片形狀	Max Allowable AC Voltage 最大連續交流電壓	Enclosure 包封材質	Tab Style 引出端形狀
CeNtRa Surge protective device 舜全 低壓避雷器	20 20mm	D Disc 圓形	35 35Vac	C Epoxy 環氧樹脂	P Planet 平板型
	22 22mm		130 130Vac		L L Shape L型
	25 25mm		385 385Vac		C Radial 圓型
	32 32mm	LS Square 方形	680 680Vac	E Plastic Case 注塑外殼	T Vertical 垂直型
	40 40mm		1000 1000Vac		
	53 53mm				

E TYPE(PLASTIC ENCLOSURE) 塑殼包封型

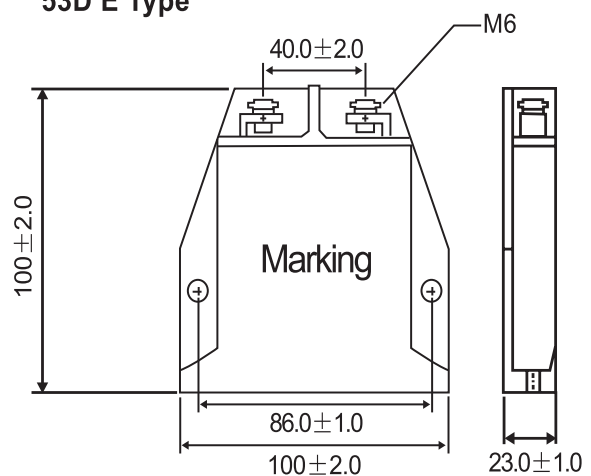
型號命名法-Explanations of Part Numbers

CNR	25	D	385	E	
Common Code 產品類別代碼	Nominal Disc Diameter 瓷片名義直徑	Disc Shape 瓷片形狀	Max Allowable AC Voltage 最大連續交流電壓	Enclosure 包封型式	
CeNtRa Surge protective device 舜全 低壓避雷器	20	20mm	D	E	
	22	22mm			Disc 圓形
	25	25mm			
	32	32mm			
	40	40mm	LS		Square 方形
	53	53mm			
35	35 Vac				
130	130Vac				
385	385Vac				
680	680Vac				
1000	1000Vac				

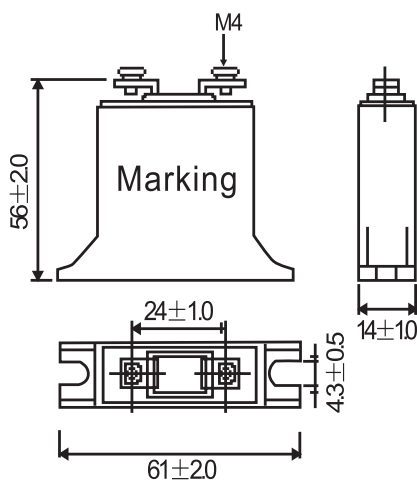
20D、22SE Type



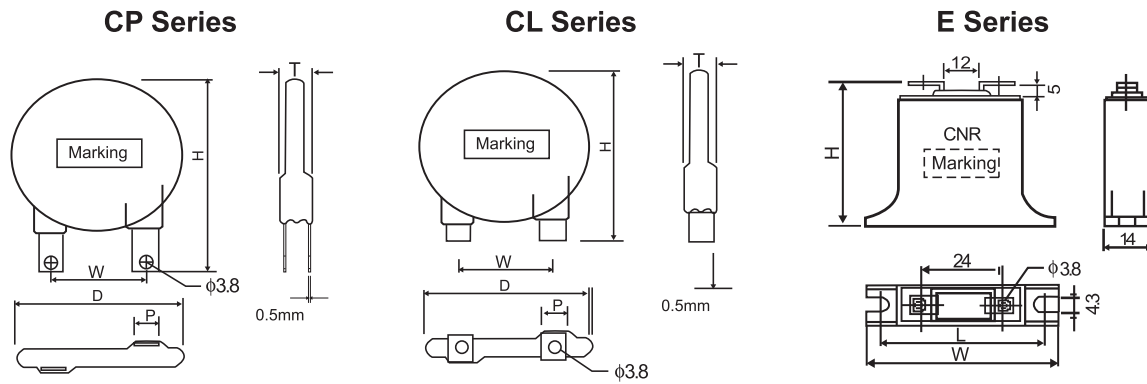
53D E Type



25D、32D、40LS E Type



25mm (25D CP CL E Series系列)



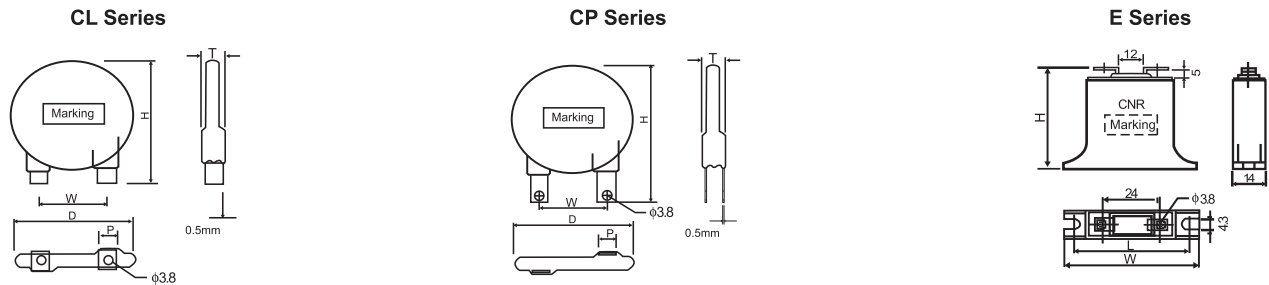
Device Ratings and Characteristics 規格與特性

型號規格 Part No.	最大連續電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage (@ 1 mA)			限制電壓 Clamping Voltage @ Test Current (8/20 μ s)		最大能量 Maximum Energy (2ms)	通流容量 Maximum Peak Current (8/20 μ s)	額定功率 Rated Power	參考電容值 Typical Capacitance (@1KHz)	安規 Safety
	ACrms(V)	DC(V)	Min.	Vb(Vdc)	Max.	Vc (V)	Ip (A)	(J)	(A)	(W)	(pF)	UI1449
CNR-25D035	35	45	50	56	66	110	30	9.2	5000	0.4	7500	☆
CNR-25D040	40	56	61	68	80	135	30	11.1	5000	0.4	7000	☆
CNR-25D050	50	65	74	82	90	135	150	37.6	15000	1.0	6900	☆
CNR-25D060	60	85	90	100	110	165	150	46.0	15000	1.0	6500	☆
CNR-25D075	75	100	108	120	132	200	150	55.2	15000	1.0	6100	☆
CNR-25D095	95	125	135	150	165	250	150	69.0	15000	1.0	5800	☆
CNR-25D115	115	150	162	180	198	300	150	82.2	15000	1.0	5500	☆
CNR-25D130	130	170	185	205	225	340	150	125	20000	1.0	5200	☆
CNR-25D140	140	180	198	220	242	360	150	130	20000	1.0	4700	☆
CNR-25D150	150	200	216	240	264	395	150	145	20000	1.0	4400	☆
CNR-25D175	175	225	247	275	303	455	150	170	20000	1.0	4000	☆
CNR-25D195	195	250	270	300	330	505	150	175	20000	1.0	3800	☆
CNR-25D210	210	275	297	330	363	550	150	180	20000	1.0	3000	☆
CNR-25D230	230	300	324	360	396	595	150	190	20000	1.0	2600	☆
CNR-25D250	250	320	351	390	429	650	150	210	20000	1.0	2500	☆
CNR-25D275	275	350	387	430	473	710	150	220	20000	1.0	2200	☆
CNR-25D300	300	385	423	470	517	775	150	225	20000	1.0	2100	☆
CNR-25D320	320	410	459	510	561	845	150	230	20000	1.0	1900	☆
CNR-25D345	345	460	504	560	616	925	150	235	20000	1.0	1800	☆
CNR-25D385	385	505	558	620	682	1025	150	240	20000	1.0	1700	☆
CNR-25D420	420	560	612	680	748	1120	150	250	20000	1.0	1600	☆
CNR-25D460	460	615	675	750	825	1240	150	275	20000	1.0	1500	☆
CNR-25D485	485	640	702	780	858	1290	150	290	20000	1.0	1300	☆
CNR-25D510	510	670	738	820	902	1355	150	300	20000	1.0	1200	☆
CNR-25D550	550	745	819	910	1001	1500	150	340	20000	1.0	1100	☆
CNR-25D625	625	825	900	1000	1100	1650	150	375	20000	1.0	990	☆
CNR-25D680	680	895	990	1100	1210	1815	150	390	20000	1.0	920	☆
CNR-25D750	750	985	1080	1200	1320	1980	150	552	15000	1.0	850	☆
CNR-25D1000	1000	1465	1620	1800	1980	2970	150	828	15000	1.0	850	☆

Related Standards 安規說明

Standard No. 安規號碼	Title 名稱	File No. 檔案號碼	Symbols 符號
UL 1449 (3rd Edition)	Surge Protective Device Suppressors	E316325	☆

32mm (32D CP CL E Series系列)



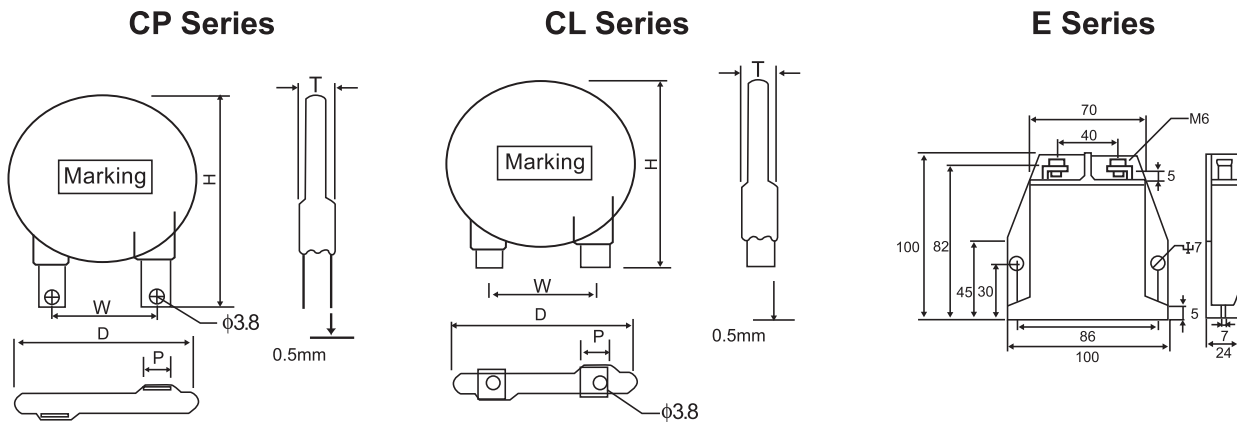
Device Ratings and Characteristics規格與特性

型號規格 Part No.	最大連續電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage (@ 1 mA)			限制電壓 Clamping Voltage @ Test Current (8/20 μ s)		最大能量 Maximum Energy (2ms)	通流容量 Maximum Peak Current (8/20 μ s)	額定功率 Rated Power	參考電容值 Typical Capacitance (@1KHz)	安規 Safety
	ACrms(V)	DC(V)	Min.	Vb(Vdc)	Max.	Vc (V)	Ip (A)	(J)	(A)	(W)	(pF)	UI1449
CNR-32D035	35	45	50	56	66	110	30	9.2	5000	0.4	7500	☆
CNR-32D040	40	56	61	68	80	135	30	11.1	5000	0.4	7000	☆
CNR-32D050	50	65	74	82	90	135	150	37.6	15000	1.0	6900	☆
CNR-32D060	60	85	90	100	110	165	150	46.0	15000	1.0	6500	☆
CNR-32D075	75	100	108	120	132	200	150	55.2	15000	1.0	6100	☆
CNR-32D095	95	125	135	150	165	250	150	69.0	15000	1.0	5800	☆
CNR-32D115	115	150	162	180	198	300	150	82.2	15000	1.0	5500	☆
CNR-32D130	130	170	185	205	225	340	200	210	30000	1.2	5800	☆
CNR-32D140	140	180	198	220	242	360	200	225	30000	1.2	4000	☆
CNR-32D150	150	200	216	240	264	395	200	240	30000	1.2	2400	☆
CNR-32D175	175	225	247	275	303	455	200	255	30000	1.2	2100	☆
CNR-32D195	195	250	270	300	330	505	200	280	30000	1.2	2000	☆
CNR-32D210	210	275	297	330	363	550	200	305	30000	1.2	1600	☆
CNR-32D230	230	300	324	360	396	595	200	325	30000	1.2	1400	☆
CNR-32D250	250	320	351	390	429	650	200	350	30000	1.2	1400	☆
CNR-32D275	275	350	387	430	473	710	200	400	30000	1.2	1200	☆
CNR-32D300	300	385	423	470	517	775	200	405	30000	1.2	1100	☆
CNR-32D320	320	410	459	510	561	845	200	430	30000	1.2	1000	☆
CNR-32D345	345	460	504	560	616	925	200	470	30000	1.2	980	☆
CNR-32D385	385	505	558	620	682	1025	200	550	30000	1.2	900	☆
CNR-32D420	420	560	612	680	748	1120	200	600	30000	1.2	830	☆
CNR-32D460	460	615	675	750	825	1240	200	610	30000	1.2	790	☆
CNR-32D485	485	640	702	780	858	1290	200	620	30000	1.2	720	☆
CNR-32D510	510	670	738	820	902	1355	200	630	30000	1.2	640	☆
CNR-32D550	550	745	819	910	1001	1500	200	650	30000	1.2	570	☆
CNR-32D625	625	825	900	1000	1100	1650	200	680	30000	1.2	530	☆
CNR-32D680	680	895	990	1100	1210	1815	200	760	30000	1.2	490	☆
CNR-32D750	750	985	1080	1200	1320	1980	150	552	15000	1.0	850	☆
CNR-32D1000	1000	1465	1620	1800	1980	2970	150	828	15000	1.0	850	☆

Related Standards安規說明

Standard No. 安規號碼	Title 名稱	File No. 檔案號碼	Symbols 符號
UL 1449 (3rd Edition)	Surge Protective Device Suppressors	E316325	☆

53mm (53D CP CL E Series系列)



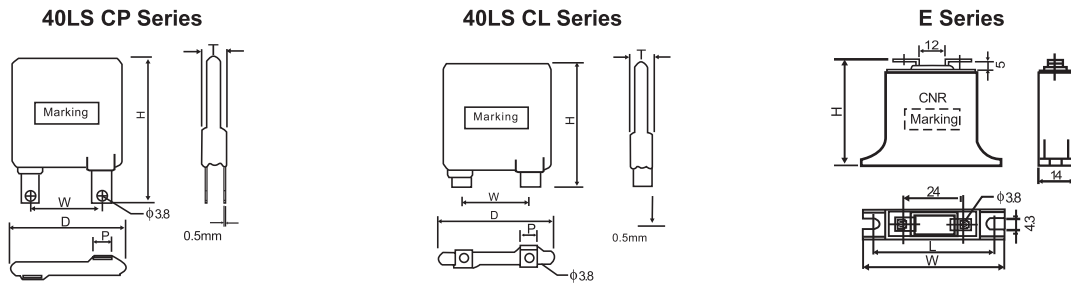
Device Ratings and Characteristics 規格與特性

型號規格 Part No.	最大連續電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage (@ 1 mA)			限制電壓 Clamping Voltage @ Test Current (8/20 μ s)		最大能量 Maximum Energy (2ms) (J)	通流容量 Maximum Peak Current (8/20 μ s) (A)	額定功率 Rated Power (W)	參考電容值 Typical Capacitance (@1KHz) (pF)	安規 Safety UI1449
	ACrms(V)	DC(V)	Min.	Vb(Vdc)	Max.	Vc (V)	I _p (A)					
CNR-53D130	130	170	185	205	225	340	500	490	70000	1.5	13800	
CNR-53D140	140	180	198	220	242	360	500	530	70000	1.5	13200	
CNR-53D150	150	200	216	240	264	395	500	570	70000	1.5	13000	
CNR-53D175	175	225	247	275	303	455	500	630	70000	1.5	12600	
CNR-53D195	195	250	270	300	330	505	500	650	70000	1.5	11500	
CNR-53D210	210	275	297	330	363	550	500	680	70000	1.5	10500	
CNR-53D230	230	300	324	360	396	595	500	730	70000	1.5	10200	
CNR-53D250	250	320	351	390	429	650	500	880	70000	1.5	8400	
CNR-53D275	275	350	387	430	473	710	500	950	70000	1.5	8100	
CNR-53D300	300	385	423	470	517	775	500	1000	70000	1.5	7200	
CNR-53D320	320	410	459	510	561	845	500	1100	70000	1.5	6300	
CNR-53D345	345	460	504	560	616	925	500	1200	70000	1.5	5100	
CNR-53D385	385	505	558	620	682	1025	500	1300	70000	1.5	3400	
CNR-53D420	420	560	612	680	748	1120	500	1500	70000	1.5	3300	
CNR-53D460	460	615	675	750	825	1240	500	1600	70000	1.5	3180	
CNR-53D485	485	640	702	780	858	1290	500	1650	70000	1.5	3000	
CNR-53D510	510	670	738	820	902	1355	500	1800	70000	1.5	3000	
CNR-53D550	550	745	819	910	1001	1500	500	2000	70000	1.5	2880	
CNR-53D625	625	825	900	1000	1100	1650	500	2200	70000	1.5	2760	
CNR-53D680	680	895	990	1100	1210	1815	500	2500	70000	1.5	2400	

Related Standards 安規說明

Standard No. 安規號碼	Title 名稱	File No. 檔案號碼	Symbols 符號
UL 1449 (3rd Edition)	Surge Protective Device Suppressors	E316325	☆

34mm (40LS Square shape 方形CP E Series系列)



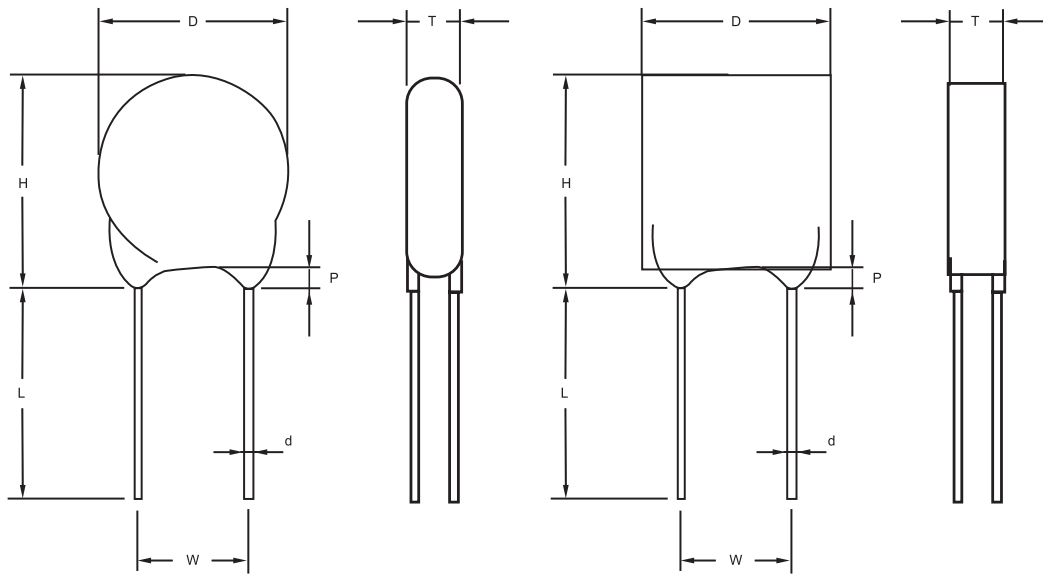
Device Ratings and Characteristics 規格與特性

型號規格 Part No.	最大連續電壓 Maximum Allowable Voltage		壓敏電壓 Varistor Voltage (@ 1 mA)			限制電壓 Clamping Voltage @ Test Current (8/20 μ s)		最大能量 Maximum Energy (2ms) (J)	通流容量 Maximum Peak Current (8/20 μ s) (A)	額定功率 Rated Power (W)	參考電容值 Typical Capacitance (@1KHz) (pF)	安規 Safety UI1449
	ACrms(V)	DC(V)	Min.	Vb(Vdc)	Max.	Vc (V)	I _p (A)					
CNR-40LS035	35	45	50	56	66	110	60	18.4	10000	0.4	7500	☆
CNR-40LS040	40	56	61	68	80	135	60	22.3	10000	0.4	7000	☆
CNR-40LS050	50	65	74	82	90	135	300	75.3	30000	1.4	6900	☆
CNR-40LS060	60	85	90	100	110	165	300	122.6	40000	1.4	6500	☆
CNR-40LS075	75	100	108	120	132	200	300	147.2	40000	1.4	6100	☆
CNR-40LS095	95	125	135	150	165	250	300	184.0	40000	1.4	5800	☆
CNR-40LS115	115	150	162	180	198	300	300	220.7	40000	1.4	5500	☆
CNR-40LS130	130	170	185	205	225	340	300	310	40000	1.4	8500	☆
CNR-40LS140	140	180	198	220	242	360	300	330	40000	1.4	7800	☆
CNR-40LS150	150	200	216	240	264	395	300	360	40000	1.4	7200	☆
CNR-40LS175	175	225	247	275	303	455	300	400	40000	1.4	6500	☆
CNR-40LS195	195	250	270	300	330	505	300	410	40000	1.4	6200	☆
CNR-40LS210	210	275	297	330	363	550	300	430	40000	1.4	5000	☆
CNR-40LS230	230	300	324	360	396	595	300	460	40000	1.4	4300	☆
CNR-40LS250	250	320	351	390	429	650	300	490	40000	1.4	4200	☆
CNR-40LS275	275	350	387	430	473	710	300	550	40000	1.4	3600	☆
CNR-40LS300	300	385	423	470	517	775	300	600	40000	1.4	3400	☆
CNR-40LS320	320	410	459	510	561	845	300	640	40000	1.4	3200	☆
CNR-40LS345	345	460	504	560	616	925	300	700	40000	1.4	3000	☆
CNR-40LS385	385	505	558	620	682	1025	300	800	40000	1.4	2800	☆
CNR-40LS420	420	560	612	680	748	1120	300	910	40000	1.4	2600	☆
CNR-40LS460	460	615	675	750	825	1240	300	920	40000	1.4	2500	☆
CNR-40LS485	485	640	702	780	858	1290	300	930	40000	1.4	2200	☆
CNR-40LS510	510	670	738	820	902	1355	300	940	40000	1.4	2000	☆
CNR-40LS550	550	745	819	910	1001	1500	300	960	40000	1.4	1800	☆
CNR-40LS625	625	825	900	1000	1100	1650	300	1050	40000	1.4	1600	☆
CNR-40LS680	680	895	990	1100	1210	1815	300	1100	40000	1.4	1500	☆
CNR-40LS750	750	985	1080	1200	1320	1980	300		40000	1.4	850	☆
CNR-40LS1000	1000	1465	1620	1800	1980	2970	300		30000	1.4	850	☆

Related Standards 安規說明

Standard No. 安規號碼	Title 名稱	File No. 檔案號碼	Symbols 符號
UL 1449 (3rd Edition)	Surge Protective Device Suppressors	E316325	☆

CC型產品外形圖:



CC型產品外形尺寸:

Unit:mm

Model	25D	32D
Symbol		
D(max)	29.0	36.0
H(max)	32.0	39.0
W(±1.0)	15/10	25.4
d(±0.5)	1.5	1.5
P(max)	5.0	5.0
L(min)	10.0	10.0

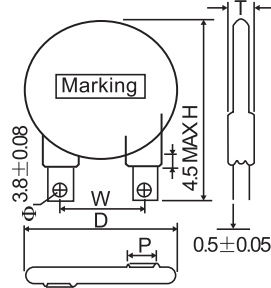
備注: 可依客戶需求訂做各種特殊腳距

CC型產品厚度尺寸:

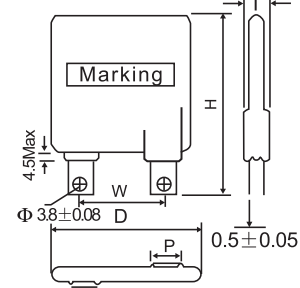
T:(max) Unit:mm

Part No.	25D	22S	32D
035	9.0	9.0	9.0
040	9.0	9.0	9.0
050	9.0	9.0	9.0
060	9.0	9.0	9.0
075	9.0	9.0	9.0
095	9.0	9.0	9.0
115	9.0	9.0	9.0
130	9.0	9.0	9.0
140	9.0	9.0	9.0
150	9.2	9.2	9.2
175	9.5	9.5	9.5
195	9.5	9.5	9.5
210	9.7	9.7	9.7
230	9.7	9.7	9.7
250	10.3	10.3	10.3
275	10.6	10.6	10.6
300	10.6	10.6	10.6
320	11.2	11.2	11.2
345	11.2	11.2	11.2
385	11.6	11.6	11.6
420	11.6	11.6	11.6
460	11.8	11.8	11.8
485	11.8	11.8	11.8
510	11.8	11.8	11.8
550	12.0	12.0	12.0
625	12.6	12.6	12.6
680	13.2	13.2	13.2
750	13.5	13.5	13.5
1000	15.0	15.0	15.0

25D/32D/40D/53D CP Series



22S/40LS CP Series



外型尺寸 Dimensions

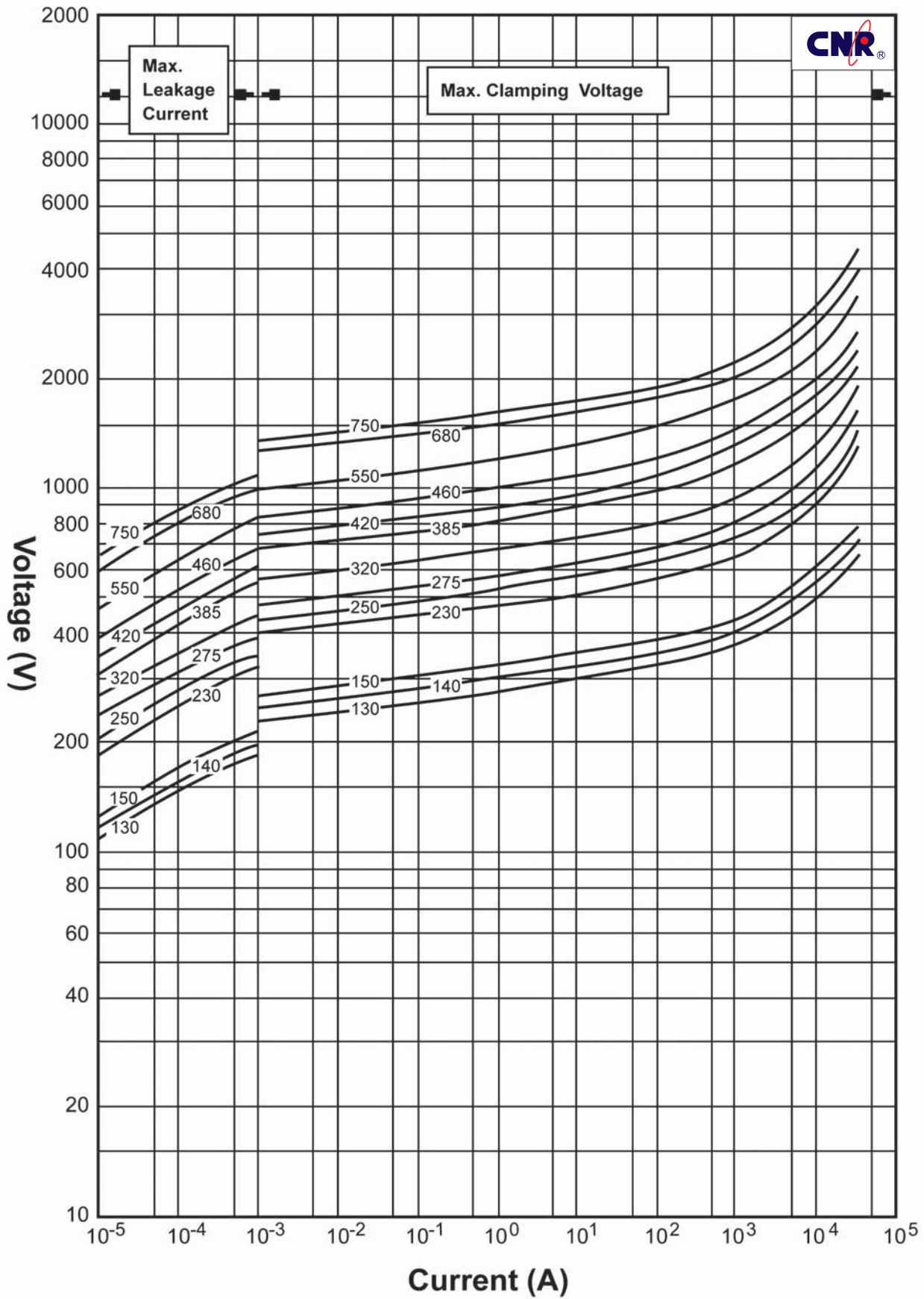
Model Symbol	25D	22S	32D	53D	40LS
D (max.)	30.0	25.0	37.0	58.0	40.0
H (max.)	45.0	28.0	50.0	80.0	56.0
W (± 1.0)	20.0	20.0	25.4	25.4	25.4
P (± 0.2)	7.0	7.0	7.0	9.5	7.0

厚度尺寸 T max.

Model Symbol	25D	22S	32D	53D	40LS
035	9.0	9.0	9.0	9.0	9.0
040	9.0	9.0	9.0	9.0	9.0
050	9.0	9.0	9.0	9.0	9.0
060	9.0	9.0	9.0	9.0	9.0
070	9.0	9.0	9.0	9.0	9.0
095	9.0	9.0	9.0	9.0	9.0
115	9.0	9.0	9.0	9.0	9.0
130	9.0	9.0	9.0	9.0	9.0
140	9.0	9.0	9.0	9.0	9.0
150	9.2	9.2	9.2	9.2	9.2
175	9.5	9.5	9.5	9.5	9.5
195	9.5	9.5	9.5	9.5	9.5
210	9.7	9.7	9.7	9.7	9.7
230	9.7	9.7	9.7	9.7	9.7
250	10.3	10.3	10.3	10.3	10.3
275	10.6	10.6	10.6	10.6	10.6
300	10.6	10.6	10.6	10.6	10.6
320	11.2	11.2	11.2	11.2	11.2
345	11.2	11.2	11.2	11.2	11.2
385	11.6	11.6	11.6	11.6	11.6
420	11.6	11.6	11.6	11.6	11.6
460	11.8	11.8	11.8	11.8	11.8
485	11.8	11.8	11.8	11.8	11.8
510	11.8	11.8	11.8	11.8	11.8
550	12.0	12.0	12.0	12.0	12.0
625	12.6	12.6	12.6	12.6	12.6
680	13.2	13.2	13.2	13.2	13.2
750	13.5	13.5	13.5	13.5	13.5
1000	15.0	15.0	15.0	15.0	15.0

unit : mm

V-I Curve (CNR-25D130C to CNR-53D680C) 電壓-電流特性曲線

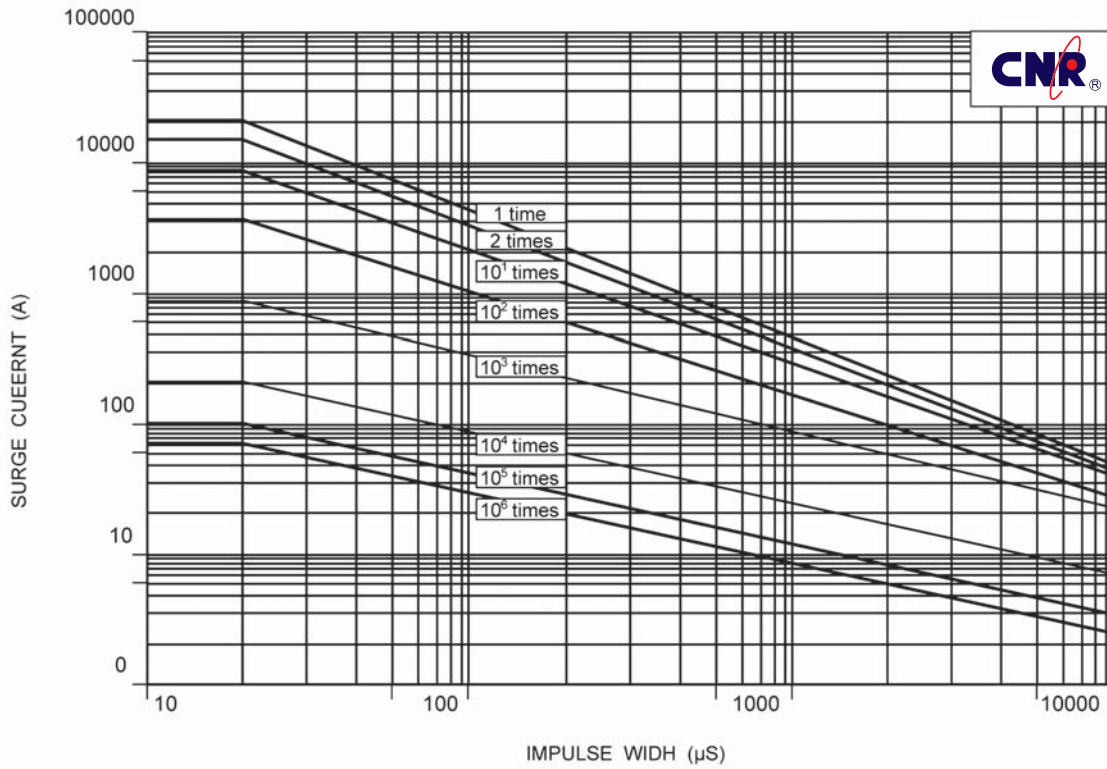


Inpulse Life Time Rating Curves 額定脈衝壽命次數曲線

CNR 壓敏電阻 (MOV)

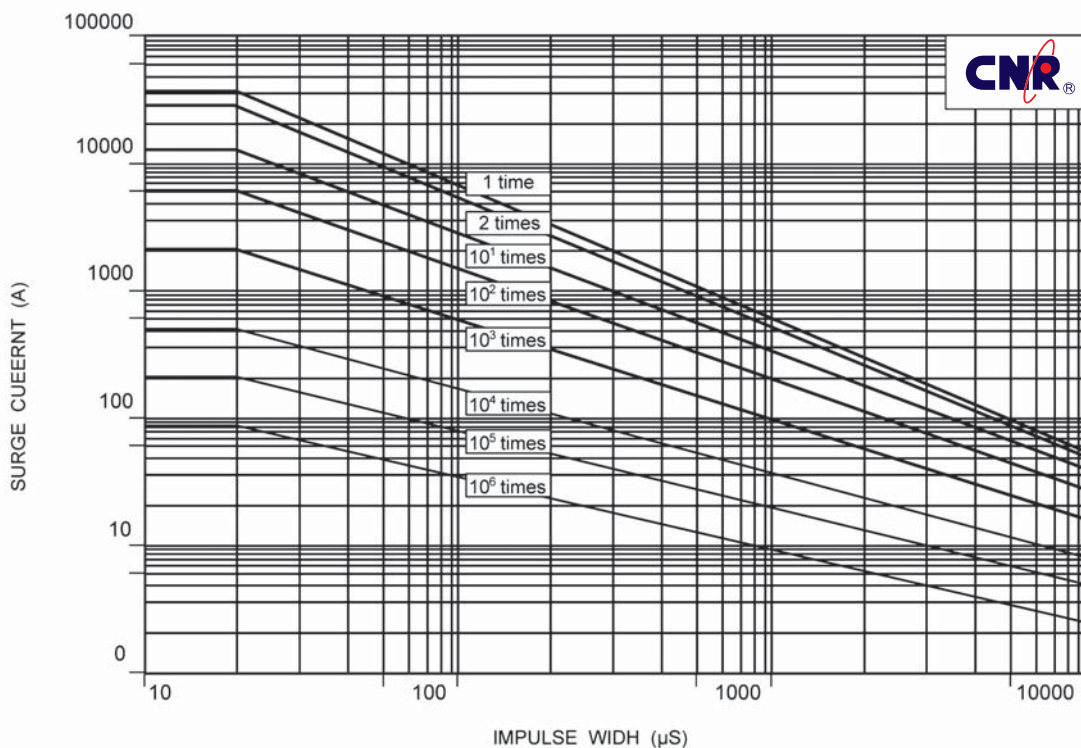
25MM系列 25MM Series

2times : 5minutes interval
 up to 10 times : 2minutes interval
 up to 10⁶ times : 10 seconds interval



32MM系列 32MM Series

2times : 5minutes interval
 up to 10 times : 2minutes interval
 up to 10⁶ times : 10 seconds interval



CNR 電涌保護器 (SPD)

Impulse Life Time Rating Curves 額定脈衝壽命次數曲線

