

N (Standard) Series

Diameter: 14 mm

標準系列



Part No. 產品型號	Maximum Allowable Voltage 可容許之最大電壓		Energy 能量 10/1000 μ S	Withstanding Surge Current 突波電流耐量 8/20 μ S		Rated Wattage 額定功率	Varistor Voltage 壓敏電壓	Maximum Clamping Voltage 最大抑制電壓
	ACrms (V)	DC (V)	(J)	1 time	2 times	(W)	at 1mA (V)	at 50A (V)
				(A)				
14D182K	1000	1465	336	4500	2500	0.6	1800(1620-1980)	2970
14D152K	900	1200	266				1500(1350-1650)	2475
14D112K	680	895	217				1100(990-1210)	1815
14D102K	625	825	217				1000(900-1100)	1650
14D911K	550	745	217				910(819-1001)	1500
14D821K	510	670	203				820(738-902)	1355
14D781K	485	640	203				780(702-858)	1290
14D751K	460	615	203				750(675-825)	1240
14D681K	420	560	168				680(612-748)	1120
14D621K	385	505	168				620(558-682)	1025
14D561K	350	460	150				560(504-616)	920
14D511K	320	415	150				510(459-561)	845
14D471K	300	385	150				470(423-517)	775
14D431K	275	350	145				430(387-473)	710
14D391K	250	320	135				390(351-429)	650
14D361K	230	300	123				360(324-396)	595
14D331K	210	275	112				330(297-363)	550
14D301K	190	250	103				300(270-330)	505
14D271K	175	225	94.0				270(243-297)	455
14D251K	160	205	84.0				250(225-275)	415
14D241K	150	200	82.6				240(216-264)	395
14D221K	140	180	79.8				220(198-242)	360
14D201K	130	170	79.8				200(185-225)	330
14D181K	115	150	58.8				180(162-198)	300
14D151K	95	125	51.8				150(135-165)	250
14D121K	75	100	40.6				120(108-132)	200
14D101K	60	85	33.6				100(90-110)	165
14D820K	50	65	29.4				82(74-90)	135

Part No. 產品型號	Maximum Allowable Voltage 可容許之最大電壓		Energy 能量 10/1000 μ S	Withstanding Surge Current 突波電流耐量 8/20 μ S		Rated Wattage 額定功率	Varistor Voltage 壓敏電壓	Maximum Clamping Voltage 最大抑制電壓	
	ACrms (V)	DC (V)		(J)	1 time				2 times
					(A)				(W)
14D680K	40	56	23.8	1000	500	0.1	68(61-75)	135	
14D560K	35	45	19.6				56(50-62)	110	
14D470K	30	38	16.8				47(42-52)	93	
14D390K	25	31	13.2				39(35-43)	77	
14D330K	20	26	12.3				33(30-36)	65	
14D270K	17	22	9.7				27(24-30)	53	
14D220K	14	18	7.6				22(20-24)	43	
14D180L	10	14	6.6				18(15-21)	38	
14D120M	7	9	4.2				12(9.6-14.4)	25	

J (High Surge & High Energy) Series

Diameter: 14 mm

高焦耳系列



Part No. 產品型號	Maximum Allowable Voltage 可容許之最大電壓		Energy 能量 10/1000 μ S	Withstanding Surge Current 突波電流耐量 8/20 μ S		Rated Wattage 額定功率	Varistor Voltage 壓敏電壓	Maximum Clamping Voltage 最大抑制電壓
	ACrms (V)	DC (V)	(J)	1 time	2 times	(W)	at 1mA (V)	at 50A (V)
				(A)				
14D182K	1000	1465	510	6000	5000	0.6	1800(1620-1980)	2970
14D152K	900	1200	420				1500(1350-1650)	2475
14D112K	680	895	310				1100(990-1210)	1815
14D102K	625	825	280				1000(900-1100)	1650
14D911K	550	745	255				910(819-1001)	1500
14D821K	510	670	235				820(738-902)	1355
14D781K	485	640	211				780(702-858)	1290
14D751K	460	615	210				750(675-825)	1240
14D681K	420	560	191				680(612-748)	1120
14D621K	385	505	190				620(558-682)	1025
14D561K	350	460	190				560(504-616)	920
14D511K	320	415	190				510(459-561)	845
14D471K	300	385	175				470(423-517)	775
14D431K	275	350	155				430(387-473)	710
14D391K	250	320	140				390(351-429)	650
14D361K	230	300	130				360(324-396)	595
14D331K	210	275	115				330(297-363)	550
14D301K	190	250	105				300(270-330)	505
14D271K	175	225	99.0				270(243-297)	455
14D241K	150	200	84.0				240(216-264)	395
14D221K	140	180	80.5				220(198-242)	360
14D201K	130	170	80.0				200(185-225)	330
14D181K	115	150	74.0				180(162-198)	300
14D151K	95	125	53.0				150(135-165)	250
14D121K	75	100	42.0				120(108-132)	200
14D101K	60	85	35.0				100(90-110)	165
14D820K	50	65	30.0				82(74-90)	135

Part No. 產品型號	Maximum Allowable Voltage 可容許之最大電壓		Energy 能量 10/1000 μ S	Withstanding Surge Current 突波電流耐量 8/20 μ S		Rated Wattage 額定功率	Varistor Voltage 壓敏電壓	Maximum Clamping Voltage 最大抑制電壓	
	ACrms (V)	DC (V)		(J)	1 time				2 times
					(A)				(W)
14D680K	40	56	24.0	2000	1000	0.1	68(61-75)	135	
14D560K	35	45	20.0				56(50-62)	110	
14D470K	30	38	17.0				47(42-52)	93	
14D390K	25	31	13.0				39(35-43)	77	
14D330K	20	26	12.5				33(30-36)	65	
14D270K	17	22	10.0				27(24-30)	53	
14D220K	14	18	8.0				22(20-24)	43	
14D180L	10	14	7.0				18(15-21)	38	

S (Super High Surge) Series

Diameter: 14 mm

耐高突波電壓系列



Part No. 產品型號	Maximum Allowable Voltage 可容許之最大電壓		Energy 能量 10/1000 μ S	Withstanding Surge Current 突波電流耐量 8/20 μ S		Rated Wattage 額定功率	Varistor Voltage 壓敏電壓	Maximum Clamping Voltage 最大抑制耐量
	ACrms (V)	DC (V)	(J)	1 time	2 times	(W)	at 1mA (V)	at 50A (V)
				(A)				
14D182K	1000	1465	685	6500	5500	0.6	1800(1620-1980)	2970
14D152K	900	1200	565				1500(1350-1650)	2475
14D122K	750	970	450				1200(1080-1320)	1925
14D112K	680	895	415				1100(990-1210)	1815
14D102K	625	825	370				1000(900-1100)	1650
14D911K	550	745	345				910(819-1001)	1500
14D821K	510	670	315				820(738-902)	1355
14D781K	485	640	285				780(702-858)	1290
14D751K	460	615	280				750(675-825)	1240
14D681K	420	560	270				680(612-748)	1120
14D621K	385	505	265				620(558-682)	1025
14D561K	350	460	260				560(504-616)	920
14D511K	320	415	256				510(459-561)	845
14D471K	300	385	236				470(423-517)	775
14D431K	275	350	210				430(387-473)	710
14D391K	250	320	190				390(351-429)	650
14D361K	230	300	175				360(324-396)	595
14D331K	210	275	155				330(297-363)	550
14D301K	190	250	140				300(270-330)	505
14D271K	175	225	135				270(243-297)	455
14D251K	160	205	120				250(225-275)	415
14D241K	150	200	115				240(216-264)	395
14D221K	140	180	110				220(198-242)	360
14D201K	130	170	108				200(185-225)	330
14D181K	115	150	100				180(162-198)	300

The general characteristics of above items meet to J series

以上型號滿足J系列產品型號之特性

Diameter: 20 mm

Part No. 產品型號	Maximum Allowable Voltage 可容許之最大電壓		Energy 能量 10/1000 μ S	Withstanding Surge Current 突波電流耐量 8/20 μ S		Rated Wattage 額定功率	Varistor Voltage 壓敏電壓	Maximum Clamping Voltage 最大抑制耐量
	ACrms (V)	DC (V)	(J)	1 time	2 times	(W)	at 1mA (V)	at 100A (V)
				(A)				
20D182K	1000	1465	1330	15000	10000	1.0	1800(1620-1980)	2970
20D152K	900	1200	1210				1500(1350-1650)	2475
20D122K	750	970	1020				1200(1080-1320)	1925
20D112K	680	895	960				1100(990-1210)	1815
20D102K	625	825	865				1000(900-1100)	1650
20D911K	550	745	790				910(819-1001)	1500
20D821K	510	670	710				820(738-902)	1355
20D781K	485	640	660				780(702-858)	1290
20D751K	460	615	650				750(675-825)	1240
20D681K	420	560	640				680(612-748)	1120
20D621K	385	505	630				620(558-682)	1025
20D561K	350	460	600				560(504-616)	920
20D511K	320	415	590				510(459-561)	845
20D471K	300	385	539				470(423-517)	775
20D431K	275	350	470				430(387-473)	710
20D391K	250	320	425				390(351-429)	650
20D361K	230	300	395				360(324-396)	595
20D331K	210	275	350				330(297-363)	550
20D301K	190	250	325				300(270-330)	505
20D271K	175	225	290				270(243-297)	455
20D251K	160	205	265				250(225-275)	415
20D241K	150	200	260				240(216-264)	395
20D221K	140	180	240				220(198-242)	360
20D201K	130	170	215				200(185-225)	330
20D181K	115	150	200				180(162-198)	300

The general characteristics of above items meet to J series

以上型號滿足J系列產品型號之特性

C (Low Clamping) Series

Diameter: 14 mm

低抑制電壓系列

Part No.	Maximum Allowable Voltage		Energy 10/1000 μ S	Withstanding Surge Current 8/20 μ S		Rated Wattage	Varistor Voltage	Maximum Clamping Voltage	
	ACrms (V)	DC (V)		(J)	1 time				2 times
					(A)				
14D182K	1000	1465	336	4500	2500	0.6	1800(1620-1980)	2770	
14D152K	900	1200	266				1500(1350-1650)	2310	
14D122K	750	970	230				1200(1080-1320)	1850	
14D112K	680	895	217				1100(990-1210)	1695	
14D102K	625	825	217				1000(900-1100)	1540	
14D911K	550	745	217				910(819-1001)	1400	
14D821K	510	670	203				820(738-902)	1260	
14D781K	485	640	203				780(702-858)	1200	
14D751K	460	615	203				750(675-825)	1155	
14D681K	420	560	168				680(612-748)	1045	
14D621K	385	505	168				620(558-682)	955	
14D561K	350	460	150				560(504-616)	860	
14D511K	320	415	150				510(459-561)	785	
14D471K	300	385	150				470(423-517)	725	
14D431K	275	350	146				430(387-473)	660	
14D391K	250	320	134				390(351-429)	600	
14D361K	230	300	123				360(324-396)	555	
14D331K	210	275	112				330(297-363)	510	
14D301K	190	250	103				300(270-330)	460	
14D271K	175	225	93.8				270(243-297)	415	
14D251K	160	205	84.0				250(225-275)	385	
14D241K	150	200	82.6				240(216-264)	370	
14D221K	140	180	79.8				220(198-242)	340	
14D201K	130	170	79.8				200(185-225)	310	
14D181K	115	150	58.8				180(162-198)	280	

Diameter: 20 mm

Part No.	Maximum Allowable Voltage		Energy 10/1000 μ S	Withstanding Surge Current 8/20 μ S		Rated Wattage	Varistor Voltage	Maximum Clamping Voltage
	ACrms (V)	DC (V)	(J)	1 time	2 times	(W)	at 1mA (V)	at 100A (V)
				(A)				
20D182K	1000	1465	560	6500	4000	1.0	1800(1620-1980)	2770
20D152K	900	1200	420				1500(1350-1650)	2310
20D122K	750	970	310				1200(1080-1320)	1850
20D112K	680	895	280				1100(990-1210)	1695
20D102K	625	825	280				1000(900-1100)	1540
20D911K	550	745	280				910(819-1001)	1400
20D821K	510	670	266				820(738-902)	1260
20D781K	485	640	266				780(702-858)	1200
20D751K	460	615	266				750(675-825)	1155
20D681K	420	560	224				680(612-748)	1045
20D621K	385	505	224				620(558-682)	955
20D561K	350	460	210				560(504-616)	860
20D511K	320	415	210				510(459-561)	785
20D471K	300	385	210				470(423-517)	725
20D431K	275	350	196				430(387-473)	660
20D391K	250	320	185				390(351-429)	600
20D361K	230	300	168				360(324-396)	555
20D331K	210	275	140				330(297-363)	510
20D301K	190	250	133				300(270-330)	460
20D271K	175	225	126				270(243-297)	415
20D251K	160	205	116				250(225-275)	385
20D241K	150	200	112				240(216-264)	370
20D221K	140	180	105				220(198-242)	340
20D201K	130	170	98.0				200(185-225)	310
20D181K	115	150	84.0				180(162-198)	280

The general characteristics of above items meet to J series

以上型號滿足J系列產品型號之特性

K (Low Capacitance) Series

Diameter: 7 mm

Part No.	Maximum Allowable Voltage		Energy 10/1000 μ S	Withstanding Surge Current 8/20 μ S		Rated Wattage	Varistor Voltage	Maximum Clamping Voltage	Typical Capacitance
	ACrms (V)	DC (V)	(J)	1 time	2 times	(W)	at 1mA (V)	at 10A (V)	1KHz (pF)
				(A)					
	07D151K	95	125	16.8	1200	600	0.25	150(135-165)	250
07D121K	75	100	14	120(108-132)				200	350
07D101K	60	85	11.6	100(90-110)				165	450
07D820K	50	65	9.8	82(74-90)				135	550

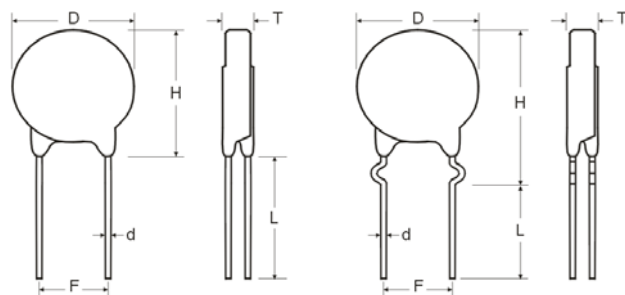
The general characteristics of above items meet to standard series

以上型號滿足標準系列產品型號之特性

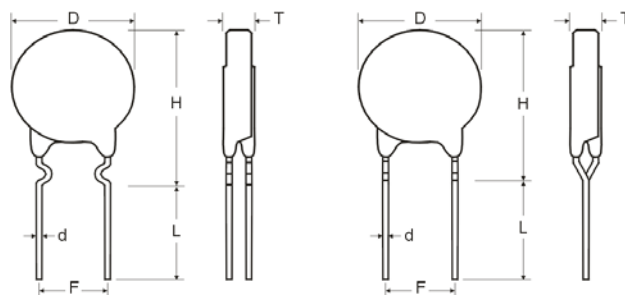
D5 to D25 Dimensions

產品尺寸

S: Straight Lead **C:** Out Crimped Lead



I: Inner Crimped Lead **Y:** Y Kink Lead



Unit: mm

Size	D max	H max		d ± 0.05	F ± 0.8	L min
Lead	All	S	C/I/Y	All	All	All
D05	7	10	13	0.6	5	20
D07	9	12	15	0.6	5	20
D10	13	16	19.5	0.8	5	20
					7.5	
D14	17	20	23	0.8	7.5	20
D20	23	27	30	0.8	7.5	20
				1.0	10	
D25	28	31	35	1.0	12.5	20

T Thickness (Max.)

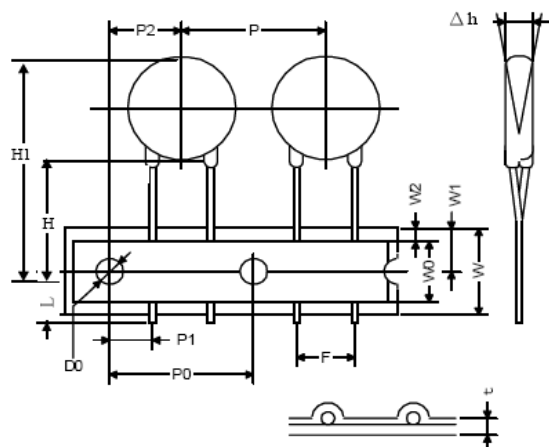
unit: mm

Part Code	D05	D07	D10	D14	D20	D25
182K	---	---	12.5	12.5	15.6	16.6
152K	---	---	11.0	11.0	13.2	13.5
122K	---	---	---	---	---	11.5
112K	---	---	8.5	8.5	10.1	10.8
102K	---	---	8.3	8.3	9.5	10.5
911K	---	---	8.1	8.1	9.0	9.6
821K	---	6.9	7.9	7.9	8.5	9.1
781K	---	6.7	7.7	7.7	8.4	8.7
751K	6.5	6.5	7.5	7.5	8.2	8.5
681K	6.4	6.4	7.1	7.1	7.8	8.3
621K	6.4	6.4	7.1	7.1	7.5	7.6
561K	6.2	6.2	6.7	6.7	7.0	7.3
511K	5.8	5.8	6.4	6.4	6.8	7.0
471K	5.6	5.6	6.1	6.1	6.6	6.8
431K	5.3	5.3	5.9	5.9	6.4	6.5
391K	5.1	5.1	5.7	5.7	6.2	6.3
361K	5.0	5.0	5.5	5.5	6.2	6.2
331K	4.8	4.8	5.3	5.3	5.9	6.1
301K	4.7	4.7	5.1	5.1	5.7	6.1
271K	4.5	4.5	5.0	5.0	5.6	6.0
251K	4.4	4.4	4.9	4.9	5.5	---
241K	4.3	4.3	4.8	4.8	5.4	5.7
221K	4.2	4.2	4.7	4.7	5.3	5.6
201K	4.1	4.1	4.5	4.5	5.0	5.5
181K	4.1	4.1	4.5	4.5	5.0	---
151K	4.8	4.8	5.2	5.2	5.6	---
121K	4.5	4.5	4.9	4.9	5.3	---
101K	4.3	4.3	4.7	4.7	5.1	---
820K	4.1	4.1	4.5	4.5	4.9	---
680K	4.5	5.2	5.3	5.3	5.8	---
560K	4.5	5.0	5.1	5.1	5.7	---
470K	4.5	4.9	5.0	5.0	5.6	---
390K	4.5	4.8	4.9	4.9	5.5	---
330K	4.5	4.9	5.0	5.0	5.4	---
270K	4.5	4.7	4.8	4.8	5.3	---
220K	4.5	4.6	4.7	4.7	5.2	---
180L	4.5	4.5	4.6	4.6	5.1	---
120M	4.3	4.3	4.5	4.5	---	---
8R0M	4.3	4.3	---	---	---	---

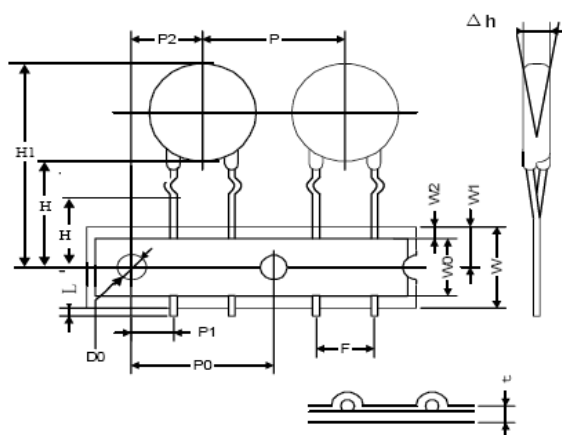
Taping Specifications

捲裝規範

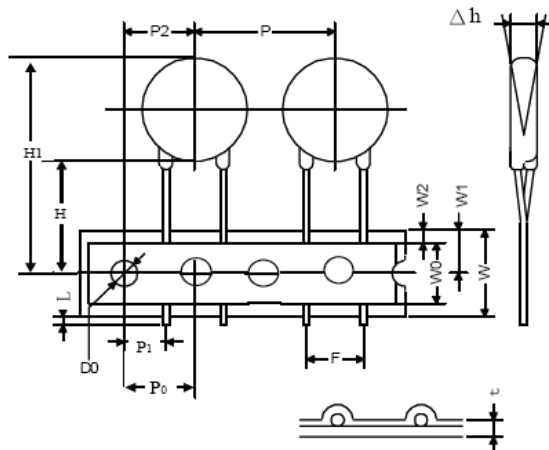
Straight Leads (5D,7D,10D)



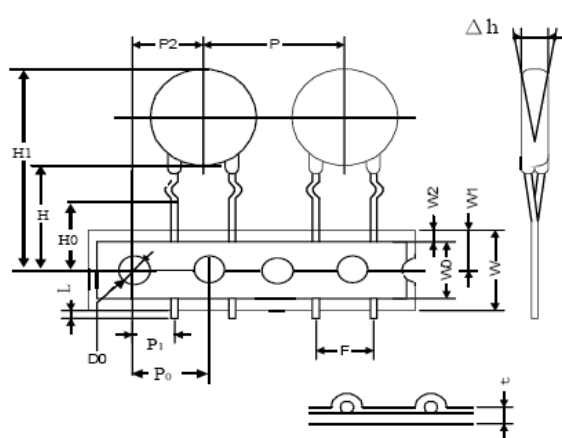
Crimped Leads (5D,7D,10D)



Straight Leads (10D,14D,20D)



Crimped Leads (10D,14D,20D)



Symbol	Parameter	05D	07D	10D		14D	20D	
P	Pitch of Component	12.7 ± 1.0	12.7 ± 1.0	12.7 ± 1.0	25.4 ± 1.0	25.4 ± 1.0	25.4 ± 1.0	
P0	Feed Hole Pitch	12.7 ± 0.3	12.7 ± 0.3	12.7 ± 0.3	12.7 ± 0.3	12.7 ± 0.3	12.7 ± 0.3	
P1	Feed Hole Center to Lead	3.85 ± 0.7	3.85 ± 0.7	3.85 ± 0.7	8.95 ± 0.7	8.95 ± 0.7	8.95 ± 0.7	7.7 ± 0.7
P2	Hole Center to Component Center	6.35 ± 1.3	6.35 ± 1.3	6.35 ± 1.3	12.7 ± 1.3	12.7 ± 1.3	12.7 ± 1.3	
F	Lead to Lead Distance	5.0 ± 0.8	5.0 ± 0.8	5.0 ± 0.8	7.5 ± 0.8	7.5 ± 0.8	7.5 ± 0.8	10 ± 0.8
Δh	Component Alignment	0 ± 0.2	0 ± 0.2	0 ± 0.2	0 ± 0.2	0 ± 0.2	0 ± 0.2	
W	Tape Width	18.0 ± 1.0	18.0 ± 1.0	18.0 ± 1.0		18.0 ± 1.0	18.0 ± 1.0	
W0	Hold Down Tape Width	12.5max	12.5max	12.5max		12.5max	12.5max	
W1	Hold Position	9.0 ± 0.5	9.0 ± 0.5	9.0 ± 0.5		9.0 ± 0.5	9.0 ± 0.5	
W2	Hold Down Tape Position	3.0max	3.0max	3.0max		3.0max	3.0max	
H	Height from Tape Center to Component	20.0 ± 2.0	20.0 ± 2.0	20.0 ± 2.0		20.0 ± 2.0	20.0 ± 2.0	
H1	Component Height	29.0max	32.0max	36.0max		40.0max	46.5max	
H0(Y,C)	Height from Tape Center to Component	16.0 ± 1.0	16.0 ± 1.0	16.0 ± 1.0		16.0 ± 1.0	16.0 ± 1.0	
L	Length of Clipped Lead	1.0max	1.0max	1.0max		1.0max	1.0max	
D0	Feed Hole Diameter	4.0 ± 0.2	4.0 ± 0.2	4.0 ± 0.2		4.0 ± 0.2	4.0 ± 0.2	
t	Total Tape Thickness	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3		0.6 ± 0.3	0.6 ± 0.3	