



压敏电阻器国际认证证书

CERTIFICATE OF RECOGNIZED VARISTOR

(2022 年 11 月版本)

汕头保税区松田电子科技有限公司

SHANTOU FREE TRADE ZONE SONGTIAN ELECTRONIC TECHNOLOGY CO., LTD

[Http://www.songtian.cn](http://www.songtian.cn)

压敏电阻器安全认证标准及证书号：

序号	国家		安规标准		证书号
1	中国		CQC	GB/T10193-1997 GB/T10194-1997	5D:CQC19001213185
					7D:CQC19001213190
				GB/T10193-1997 GB/T10194-1997 GB 4943.1-2022;IEC 61051-2:1991+Amd1:2009	10D:CQC19001213188
					14D:CQC19001213191
					20D:CQC19001213192
					25D: CQC21001289415
2	美国/加拿大		UL	UL1449	E330837
3	德国		VDE	IEC61051 IEC60950-1:2013 IEC62368-1:2018/G. 8. 1	40023049



产品认证证书

证书编号: CQC19001213185

发证日期: 2022年03月07日

有效期至: 长期有效

委托人名称 汕头高新区松田实业有限公司
及注册地址 汕头高新区科技西路9号7楼701房之015

制造商名称 汕头高新区松田实业有限公司
及注册地址 汕头高新区科技西路9号7楼701房之015

生产企业名称 汕头保税区松田电子科技有限公司
及生产地址 汕头保税区松田科技园东区、松田科技园西区

产品名称和系列、规格、型号 氧化锌压敏电阻器
STE-05D (820K-561K) 压敏电压: 82V-560V, 压敏电压的允许偏差为 K: $\pm 10\%$, 有焰燃烧等级为 C 级, 气候类别为 40/125/56

产品标准和技术要求 GB/T 10193-1997; GB/T 10194-1997

认证模式 产品型式试验+获证后监督

上述产品符合 CQC11-471551-2015 认证规则的要求, 特发此证。

本证书为变更证书, 证书首次颁发日期: 2019年01月31日

本证书的有效性依据发证机构的定期监督获得保持。

可通过扫描下方二维码或登录国家认监委网站 (www.cnca.gov.cn) 查验证书信息



签发:

谢肇煦



中国质量认证中心



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证书编号: CQC19001213190

发证日期: 2022年03月07日

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及生产地址 汕头保税区松田科技园东区、松田科技园西区

产品名称和系列、规格、型号 氧化锌压敏电阻器
STE-07D (820K-821K) 压敏电压: 82V-820V, 压敏电压的允许偏差为 K: $\pm 10\%$, 有焰燃烧等级为 C 级, 气候类别为 40/125/56

产品标准和技术要求 GB/T 10193-1997; GB/T 10194-1997

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谢肇煦



中国质量认证中心



产品认证证书

证书编号: CQC19001213188

发证日期: 2022 年 11 月 01 日

有效期至: 2027 年 10 月 31 日

委托人名称 汕头高新区松田实业有限公司
及注册地址 汕头高新区科技西路 9 号 7 楼 701 房之 015

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及生产地址 汕头保税区松田科技园东区、松田科技园西区

产品名称和系列、规格、型号 氧化锌压敏电阻器
STE-10D (820K ~ 112K) 压敏电压 : 82V ~ 1100V , 最大连续交流电压 : 50VAC ~ 680VAC , 压敏电压 的允许偏差为 K : $\pm 10\%$; 有焰燃烧等级为 C 级 ; 气候类别为 40/125/56 [注 : STE-10D (431K ~ 112K) 压敏电压 : 430V ~ 1100V , 最大连续交流 电压 : 275VAC ~ 680VAC , 通过了 GB 4943.1-2011 和 GB 8898-2011 的附加试验] 具体规格型号详见附件 (不用于接入交流电网电源电压 600V , 过电压类别 IV 的设备)

产品标准和技术要求 GB/T 10193-1997; GB/T 10194-1997; GB 4943.1-2022; IEC 61051-2:1991+Amd1:2009

认证模式 产品型式试验 + 获证后监督

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产品认证证书

证书编号 CQC19001213188

第 1 页 共 1 页

本证书及附件应同时使用，信息查验说明见证书页

纸号：

型号规格	压敏电压 (V)	最大连续交流电压 $A \cdot C_{r.m.s}$ (V)
STE-10D820K	82	50
STE-10D101K	100	60
STE-10D121K	120	75
STE-10D151K	150	95
STE-10D181K	180	115
STE-10D201K	200	130
STE-10D221K	220	140
STE-10D241K	240	150
STE-10D271K	270	175
STE-10D301K	300	190
STE-10D331K	330	210
STE-10D361K	360	230
STE-10D391K	390	250
STE-10D431K	430	275
STE-10D471K	470	300
STE-10D511K	510	320
STE-10D561K	560	350
STE-10D621K	620	385
STE-10D681K	680	420
STE-10D751K	750	460
STE-10D781K	780	485
STE-10D821K	820	510
STE-10D911K	910	550
STE-10D102K	1000	625
STE-10D112K	1100	680



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及生产地址 汕头保税区松田科技园东区、松田科技园西区

产品名称和系列、规格、型号 氧化锌压敏电阻器
STE-14D (820K ~ 112K) 压敏电压 : 82V ~ 1100V , 最大连续交流电压 : 50VAC ~ 680VAC , 压敏电压的允许偏差为 K : $\pm 10\%$; 有焰燃烧等级为 C 级 ; 气候类别为 40/125/56 [注 : STE-14D (431K ~ 112K) 压敏电压 : 430V ~ 1100V , 最大连续交流电压 : 275VAC ~ 680VAC , 通过了 GB4943.1-2011 和 GB8898-2011 的附加试验] 具体规格型号详见附件 (不用于接入交流电网电源电压 600V , 过电压类别 IV 的设备)

产品标准和技术要求 GB/T 10193-1997; GB/T 10194-1997; GB 4943.1-2022; IEC 61051-2:1991+Amd1:2009

认证模式 产品型式试验 + 获证后监督

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第 1 页 共 1 页

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纸号：

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STE-14D820K	82	50
STE-14D101K	100	60
STE-14D121K	120	75
STE-14D151K	150	95
STE-14D181K	180	115
STE-14D201K	200	130
STE-14D221K	220	140
STE-14D241K	240	150
STE-14D271K	270	175
STE-14D301K	300	190
STE-14D331K	330	210
STE-14D361K	360	230
STE-14D391K	390	250
STE-14D431K	430	275
STE-14D471K	470	300
STE-14D511K	510	320
STE-14D561K	560	350
STE-14D621K	620	385
STE-14D681K	680	420
STE-14D751K	750	460
STE-14D781K	780	485
STE-14D821K	820	510
STE-14D911K	910	550
STE-14D102K	1000	625
STE-14D112K	1100	680



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及生产地址 汕头保税区松田科技园东区、松田科技园西区

产品名称和系列、规格、型号 氧化锌压敏电阻器
STE-20D (820K ~ 112K) 压敏电压 : 82V ~ 1100V , 最大连续交流电压 : 50VAC ~ 680VAC , 压敏电压的允许偏差为 K : $\pm 10\%$; 有焰燃烧等级为 C 级 ; 气候类别为 40/125/56 [注 : STE-20D (431K ~ 112K) 压敏电压 : 430V ~ 1100V , 最大连续交流电压 : 275VAC ~ 680VAC , 通过了 GB4943.1-2011 和 GB8898-2011 的附加试验] 具体规格型号详见附件 (不用于接入交流电网电源电压 600V , 过电压类别 IV 的设备)

产品标准和技术要求 GB/T 10193-1997; GB/T 10194-1997; GB 4943.1-2022; IEC 61051-2:1991+Amd1:2009

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第 1 页 共 1 页

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纸号：

型号规格	压敏电压 (V)	最大连续交流电压 $A \cdot C_{r.m.s}$ (V)
STE-20D820K	82	50
STE-20D101K	100	60
STE-20D121K	120	75
STE-20D151K	150	95
STE-20D181K	180	115
STE-20D201K	200	130
STE-20D221K	220	140
STE-20D241K	240	150
STE-20D271K	270	175
STE-20D301K	300	190
STE-20D331K	330	210
STE-20D361K	360	230
STE-20D391K	390	250
STE-20D431K	430	275
STE-20D471K	470	300
STE-20D511K	510	320
STE-20D561K	560	350
STE-20D621K	620	385
STE-20D681K	680	420
STE-20D751K	750	460
STE-20D781K	780	485
STE-20D821K	820	510
STE-20D911K	910	550
STE-20D102K	1000	625
STE-20D112K	1100	680



中国质量认证中心



产品认证证书

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发证日期: 2022年11月01日

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委托人名称 汕头高新区松田实业有限公司
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产品名称和系列、规格、型号 氧化锌压敏电阻器
见附件(不用于接入交流电网电源电压600V, 过电压类别IV的设备)

产品标准和技术要求 GB/T 10193-1997;GB/T 10194-1997;GB 4943.1-2022;IEC 61051-2:1991+Amd1:2009

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第 1 页 共 2 页

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纸号：

STE-25D (181K ~ 122K) 压敏电压：180V ~ 1200V，最大连续交流电压：115VAC ~ 750VAC，压敏电压的允许偏差为 K $\pm 10\%$ ，气候类别为 40/125/56[注 STE-25D(201K ~ 122K)压敏电压 200V ~ 1200V，最大连续交流电压：130VAC ~ 750VAC，通过了 GB 4943.1-2011 和 GB 8898-2011 的附加试验]

型号规格	压敏电压 (V)	最大连续交流电压 $A \cdot C_{r.m.s}$ (V)	标准
STE-25D181K	180	115	GB/T 10193-1997 GB/T 10194-1997
STE-25D201K	200	130	
STE-25D221K	220	140	GB/T 10193-1997 GB/T 10194-1997 GB 4943.1-2011 GB 8898-2011
STE-25D241K	240	150	
STE-25D271K	270	175	
STE-25D301K	300	190	
STE-25D331K	330	210	
STE-25D361K	360	230	
STE-25D391K	390	250	
STE-25D431K	430	275	
STE-25D471K	470	300	
STE-25D511K	510	320	
STE-25D561K	560	350	
STE-25D621K	620	385	
STE-25D681K	680	420	
STE-25D751K	750	460	
STE-25D781K	780	485	
STE-25D821K	820	510	
STE-25D911K	910	550	



中国质量认证中心



产品认证证书

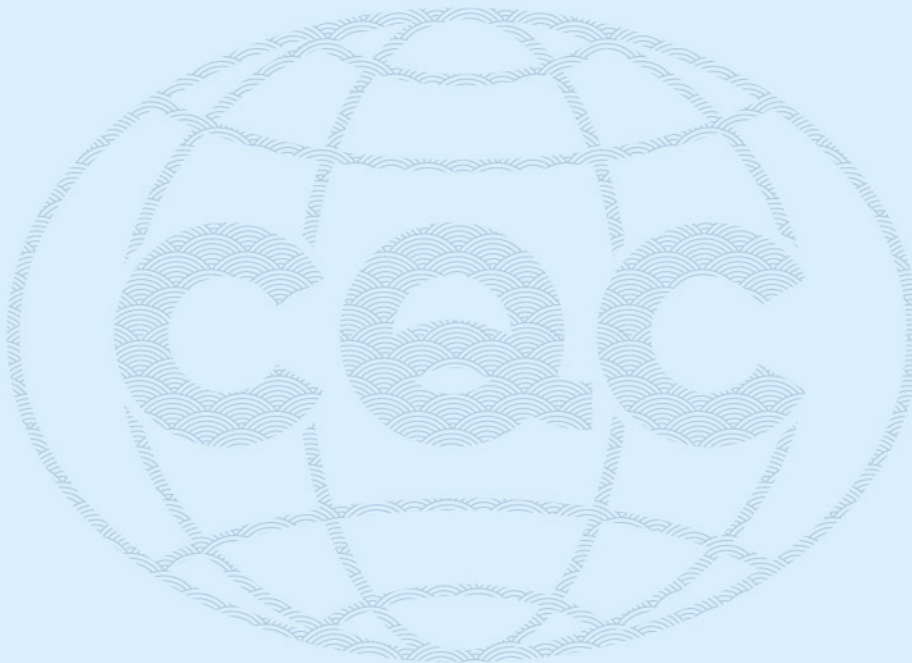
证书编号 CQC21001289415

第 2 页 共 2 页

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纸号：

STE-25D102K	1000	625	
STE-25D112K	1100	680	
STE-25D122K	1200	750	



中国质量认证中心

VZCA2.E330837 - Surge-protective Devices - Component

Surge-protective Devices - Component

SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO LTD
9 KEJIXI RD
GAOXINQU
SHANTOU, GUANGDONG 515000 China

E330837

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)								
05D101K	5	60	AC	1	N/A	-40	105	Ld-Ld	-	210	60	100	0.15	N/A	1,5a
05D121K	5	75	AC	1	N/A	-40	105	Ld-Ld	-	230	75	120	0.15	N/A	1,5a
05D151K	5	95	AC	1	N/A	-40	105	Ld-Ld	-	260	95	150	0.15	N/A	1,5a
05D180K	5	11	AC	1	N/A	-40	105	Ld-Ld	-	90	11	18	0.05	N/A	1,5a
05D181K	5	115	AC	1	N/A	-40	105	Ld-Ld	-	300	115	180	0.15	N/A	1,5a
05D201K	5	130	AC	1	N/A	-40	105	Ld-Ld	-	320	130	200	0.15	N/A	1,5a
05D220K	5	14	AC	1	N/A	-40	105	Ld-Ld	-	100	14	22	0.05	N/A	1,5a
05D221K	5	140	AC	1	N/A	-40	105	Ld-Ld	-	460	140	220	0.15	N/A	1,5a
05D241K	5	150	AC	1	N/A	-40	105	Ld-Ld	-	490	150	240	0.15	N/A	1,5a
05D270K	5	17	AC	1	N/A	-40	105	Ld-Ld	-	120	17	27	0.05	N/A	1,5a
05D271K	5	175	AC	1	N/A	-40	105	Ld-Ld	-	580	175	270	0.15	N/A	1,5a
05D301K	5	190	AC	1	N/A	-40	105	Ld-Ld	-	630	190	300	0.15	N/A	1,5a
05D330K	5	20	AC	1	N/A	-40	105	Ld-Ld	-	130	20	33	0.05	N/A	1,5a
05D331K	5	210	AC	1	N/A	-40	105	Ld-Ld	-	700	210	330	0.15	N/A	1,5a

05D361K	5	230	AC	1	N/A	-40	105	Ld-Ld	-	770	230	360	0.15	N/A	1,5a
05D390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	150	25	39	0.05	N/A	1,5a
05D391K	5	250	AC	1	N/A	-40	105	Ld-Ld	-	840	250	390	0.15	N/A	1,5a
05D431K	5	275	AC	1	N/A	-40	105	Ld-Ld	-	930	275	430	0.15	N/A	1,5a
05D471K	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1010	300	470	0.15	N/A	1,5a
05D511K	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1080	320	510	0.15	N/A	1,5a
05D561K	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1080	350	560	0.15	N/A	1,5a
05D820K	5	50	AC	1	N/A	-40	105	Ld-Ld	-	190	50	82	0.15	N/A	1,5a
07D101K	5	60	AC	1	N/A	-40	125	Ld-Ld	-	220	60	100	0.25	N/A	1,5a
07D101K-H	5	60	AC	1	N/A	-40	125	Ld-Ld	-	220	60	100	0.25	N/A	1, 5a
07D121K	5	75	AC	1	N/A	-40	125	Ld-Ld	-	270	75	120	0.25	N/A	1,5a
07D121K-H	5	75	AC	1	N/A	-40	125	Ld-Ld	-	260	75	120	0.25	N/A	1, 5a
07D151K	5	95	AC	1	N/A	-40	125	Ld-Ld	-	330	95	150	0.25	N/A	1,5a
07D151K-H	5	95	AC	1	N/A	-40	125	Ld-Ld	-	310	95	150	0.25	N/A	1, 5a
07D180K	5	11	AC	1	N/A	-40	105	Ld-Ld	-	110	11	18	0.1	N/A	1,5a
07D181K	5	115	AC	1	N/A	-40	125	Ld-Ld	-	390	115	180	0.25	N/A	1,5a
07D181K-H	5	115	AC	1	N/A	-40	125	Ld-Ld	-	370	115	180	0.25	N/A	1, 5a
07D201K	5	130	AC	1	N/A	-40	125	Ld-Ld	-	430	130	200	0.25	N/A	1,5a
07D201K-H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	410	130	200	0.25	N/A	1, 5a
07D220K	5	14	AC	1	N/A	-40	105	Ld-Ld	-	130	14	22	0.1	N/A	1,5a
07D221K	5	140	AC	1	N/A	-40	125	Ld-Ld	-	450	140	220	0.25	N/A	1,5a

07D221K-H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	430	140	220	0.25	N/A	1, 5a
07D241K	5	150	AC	1	N/A	-40	125	Ld-Ld	-	480	150	240	0.25	N/A	1,5a
07D241K-H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	460	150	240	0.25	N/A	1, 5a
07D270K	5	17	AC	1	N/A	-40	105	Ld-Ld	-	140	17	27	0.1	N/A	1,5a
07D271K	5	175	AC	1	N/A	-40	125	Ld-Ld	-	570	175	270	0.25	N/A	1,5a
07D271K-H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	550	175	270	0.25	N/A	1, 5a
07D301K	5	190	AC	1	N/A	-40	125	Ld-Ld	-	620	190	300	0.25	N/A	1,5a
07D301K-H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	600	190	300	0.25	N/A	1, 5a
07D330K	5	20	AC	1	N/A	-40	105	Ld-Ld	-	160	20	33	0.1	N/A	1,5a
07D331K	5	210	AC	1	N/A	-40	125	Ld-Ld	-	690	210	330	0.25	N/A	1,5a
07D331K-H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	670	210	330	0.25	N/A	1, 5a
07D361K	5	230	AC	1	N/A	-40	125	Ld-Ld	-	760	230	360	0.25	N/A	1,5a
07D361K-H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	740	230	360	0.25	N/A	1, 5a
07D390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	190	25	39	0.1	N/A	1,5a
07D391K	5	250	AC	1	N/A	-40	125	Ld-Ld	-	820	250	390	0.25	N/A	1,5a
07D391K-H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	800	250	390	0.25	N/A	1, 5a
07D431K	5	275	AC	1	N/A	-40	125	Ld-Ld	-	910	275	430	0.25	N/A	1,5a
07D431K-H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	890	275	430	0.25	N/A	1, 5a
07D470K	5	30	AC	1	N/A	-40	105	Ld-Ld	-	210	30	47	0.1	N/A	1,5a
07D471K	5	300	AC	1	N/A	-40	125	Ld-Ld	-	990	300	470	0.25	N/A	1,5a
07D471K-H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	970	300	470	0.25	N/A	1, 5a

07D511K	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1060	320	510	0.25	N/A	1,5a
07D511K-H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1040	320	510	0.25	N/A	1, 5a
07D560K	5	35	AC	1	N/A	-40	105	Ld-Ld	-	240	35	56	0.1	N/A	1,5a
07D561K	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1080	350	560	0.25	N/A	1,5a
07D561K-H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1070	350	560	0.25	N/A	1, 5a
07D621K	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1180	385	620	0.25	N/A	1,5a
07D621K-H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1180	385	620	0.25	N/A	1, 5a
07D680K	5	40	AC	1	N/A	-40	105	Ld-Ld	-	270	40	68	0.1	N/A	1,5a
07D681K	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1270	420	680	0.25	N/A	1,5a
07D681K-H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1290	420	680	0.25	N/A	1, 5a
07D681KT	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1280	420	680	0.25	n/a	1,5a
07D820K	5	50	AC	1	N/A	-40	125	Ld-Ld	-	190	50	82	0.25	N/A	1,5a
07D820K-H	5	50	AC	1	N/A	-40	125	Ld-Ld	-	190	50	82	0.25	N/A	1, 5a
10D101K	5	60	AC	1	N/A	-40	125	Ld-Ld	-	420	60	100	3	N/A	1,5a
10D101K-H	5	60	AC	1	N/A	-40	125	Ld-Ld	-	550	60	100	3	N/A	1, 5a
10D101KT	5	60	AC	1	N/A	-40	125	Ld-Ld	-	490	60	100	3	n/a	1,5a
10D102K	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2470	625	1000	3	N/A	1,5a
10D102K-H	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2560	625	1000	3	N/A	1, 5a
10D112K	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2670	680	1100	3	N/A	1,5a
10D112K-H	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2770	680	1100	3	N/A	1, 5a
10D121K	5	75	AC	1	N/A	-40	125	Ld-Ld	-	470	75	120	3	N/A	1,5a

10D121K-H	5	75	AC	1	N/A	-40	125	Ld-Ld	-	590	75	120	3	N/A	1, 5a
10D121KT	5	75	AC	1	N/A	-40	125	Ld-Ld	-	530	75	120	3	n/a	1,5a
10D151K	5	95	AC	1	N/A	-40	125	Ld-Ld	-	540	95	150	3	N/A	1,5a
10D151K-H	5	95	AC	1	N/A	-40	125	Ld-Ld	-	640	95	150	3	N/A	1, 5a
10D151KT	5	95	AC	1	N/A	-40	125	Ld-Ld	-	580	95	150	3	n/a	1,5a
10D180K	5	11	AC	1	N/A	-40	105	Ld-Ld	-	80	11	18	0.15	N/A	1,5a
10D181K	5	115	AC	1	N/A	-40	125	Ld-Ld	-	610	115	180	3	N/A	1,5a
10D181K-H	5	115	AC	1	N/A	-40	125	Ld-Ld	-	680	115	180	3	N/A	1, 5a
10D181KT	5	115	AC	1	N/A	-40	125	Ld-Ld	-	640	115	180	3	n/a	1,5a
10D201K	5	130	AC	1	N/A	-40	125	Ld-Ld	-	660	130	200	3	N/A	1,5a
10D201K-H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	720	130	200	3	N/A	1, 5a
10D201KT	5	130	AC	1	N/A	-40	125	Ld-Ld	-	680	130	200	3	n/a	1,5a
10D220K	5	14	AC	1	N/A	-40	105	Ld-Ld	-	90	14	22	0.15	N/A	1,5a
10D221K	5	140	AC	1	N/A	-40	125	Ld-Ld	-	690	140	220	3	N/A	1,5a
10D221K-H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	780	140	220	3	N/A	1, 5a
10D221KT	5	140	AC	1	N/A	-40	125	Ld-Ld	-	730	140	220	3	n/a	1,5a
10D241K	5	150	AC	1	N/A	-40	125	Ld-Ld	-	730	150	240	3	N/A	1,5a
10D241K-H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	810	150	240	3	N/A	1, 5a
10D241KT	5	150	AC	1	N/A	-40	125	Ld-Ld	-	760	150	240	3	n/a	1,5a
10D270K	5	17	AC	1	N/A	-40	105	Ld-Ld	-	100	17	27	0.15	N/A	1,5a
10D271K	5	175	AC	1	N/A	-40	125	Ld-Ld	-	820	175	270	3	N/A	1,5a

10D271K-H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	890	175	270	3	N/A	1, 5a
10D271KT	5	175	AC	1	N/A	-40	125	Ld-Ld	-	840	175	270	3	n/a	1,5a
10D301K	5	190	AC	1	N/A	-40	125	Ld-Ld	-	880	190	300	3	N/A	1,5a
10D301K-H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	940	190	300	3	N/A	1, 5a
10D301KT	5	190	AC	1	N/A	-40	125	Ld-Ld	-	890	190	300	3	n/a	1,5a
10D330K	5	20	AC	1	N/A	-40	105	Ld-Ld	-	120	20	33	0.15	N/A	1,5a
10D331K	5	210	AC	1	N/A	-40	125	Ld-Ld	-	950	210	330	3	N/A	1,5a
10D331K-H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1010	210	330	3	N/A	1, 5a
10D361K	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1030	230	360	3	N/A	1,5a
10D361K-H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1080	230	360	3	N/A	1, 5a
10D390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	140	25	39	0.15	N/A	1,5a
10D391K	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1100	250	390	3	N/A	1,5a
10D391K-H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1140	250	390	3	N/A	1, 5a
10D431K	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1190	275	430	3	N/A	1,5a
10D431K-H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1220	275	430	3	N/A	1, 5a
10D470K	5	30	AC	1	N/A	-40	105	Ld-Ld	-	160	30	47	0.15	N/A	1,5a
10D471K	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1290	300	470	3	N/A	1,5a
10D471K-H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1300	300	470	3	N/A	1, 5a
10D511K	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1360	320	510	3	N/A	1,5a
10D511K-H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1370	320	510	3	N/A	1, 5a
10D560K	5	35	AC	1	N/A	-40	105	Ld-Ld	-	180	35	56	0.15	N/A	1,5a

10D561K	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1470	350	560	3	N/A	1,5a
10D561K-H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1490	350	560	3	N/A	1, 5a
10D621K	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1600	385	620	3	N/A	1,5a
10D621K-H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1620	385	620	3	N/A	1, 5a
10D680K	5	40	AC	1	N/A	-40	105	Ld-Ld	-	200	40	68	0.15	N/A	1,5a
10D681K	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1720	420	680	3	N/A	1,5a
10D681K-H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1760	420	680	3	N/A	1, 5a
10D751K	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1870	460	750	3	N/A	1,5a
10D751K-H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1910	460	750	3	N/A	1, 5a
10D781K	5	485	AC	1	N/A	-40	125	Ld-Ld	-	1960	485	780	3	N/A	1,5a
10D781K-H	5	485	AC	1	N/A	-40	125	Ld-Ld	-	2010	485	780	3	N/A	1, 5a
10D820K	5	50	AC	1	N/A	-40	125	Ld-Ld	-	390	50	82	3	N/A	1,5a
10D820K-H	5	50	AC	1	N/A	-40	125	Ld-Ld	-	530	50	82	3	N/A	1, 5a
10D820KT	5	50	AC	1	N/A	-40	125	Ld-Ld	-	460	50	82	3	n/a	1,5a
10D821K	5	510	AC	1	N/A	-40	125	Ld-Ld	-	2050	510	820	3	N/A	1,5a
10D821K-H	5	510	AC	1	N/A	-40	125	Ld-Ld	-	2110	510	820	3	N/A	1, 5a
10D911K	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2200	550	910	3	N/A	1,5a
10D911K-H	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2260	550	910	3	N/A	1, 5a
14D101K	5	60	AC	1	N/A	-40	125	Ld-Ld	-	490	60	100	3	N/A	1,5a
14D101K-H	5	60	AC	1	N/A	-40	125	Ld-Ld	-	490	60	100	3	N/A	1, 5a
14D102K	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2360	625	1000	3	N/A	1,5a

14D102K-H	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2240	625	1000	3	N/A	1, 5a
14D112K	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2540	680	1100	3	N/A	1,5a
14D112K-H	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2420	680	1100	3	N/A	1, 5a
14D121K	5	75	AC	1	N/A	-40	125	Ld-Ld	-	550	75	120	3	N/A	1,5a
14D121K-H	5	75	AC	1	N/A	-40	125	Ld-Ld	-	540	75	120	3	N/A	1, 5a
14D151K	5	95	AC	1	N/A	-40	125	Ld-Ld	-	620	95	150	3	N/A	1,5a
14D151K-H	5	95	AC	1	N/A	-40	125	Ld-Ld	-	600	95	150	3	N/A	1, 5a
14D180K	5	11	AC	1	N/A	-40	105	Ld-Ld	-	70	11	18	0.25	N/A	1,5a
14D181K	5	115	AC	1	N/A	-40	125	Ld-Ld	-	700	115	180	3	N/A	1,5a
14D181K-H	5	115	AC	1	N/A	-40	125	Ld-Ld	-	660	115	180	3	N/A	1, 5a
14D201K	5	130	AC	1	N/A	-40	125	Ld-Ld	-	760	130	200	3	N/A	1,5a
14D201K-H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	710	130	200	3	N/A	1, 5a
14D220K	5	14	AC	1	N/A	-40	105	Ld-Ld	-	80	14	22	0.25	N/A	1,5a
14D221K	5	140	AC	1	N/A	-40	125	Ld-Ld	-	790	140	220	3	N/A	1,5a
14D221K-H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	740	140	220	3	N/A	1, 5a
14D241K	5	150	AC	1	N/A	-40	125	Ld-Ld	-	820	150	240	3	N/A	1,5a
14D241K-H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	770	150	240	3	N/A	1, 5a
14D270K	5	17	AC	1	N/A	-40	105	Ld-Ld	-	90	17	27	0.25	N/A	1,5a
14D271K	5	175	AC	1	N/A	-40	125	Ld-Ld	-	900	175	270	3	N/A	1,5a
14D271K-H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	840	175	270	3	N/A	1, 5a
14D301K	5	190	AC	1	N/A	-40	125	Ld-Ld	-	940	190	300	3	N/A	1,5a

14D301K-H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	880	190	300	3	N/A	1, 5a
14D330K	5	20	AC	1	N/A	-40	105	Ld-Ld	-	100	20	33	0.25	N/A	1,5a
14D331K	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1000	210	330	3	N/A	1,5a
14D331K-H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	940	210	330	3	N/A	1, 5a
14D361K	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1070	230	360	3	N/A	1,5a
14D361K-H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1000	230	360	3	N/A	1, 5a
14D390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	120	25	39	0.25	N/A	1,5a
14D391K	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1130	250	390	3	N/A	1,5a
14D391K-H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1050	250	390	3	N/A	1, 5a
14D431K	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1200	275	430	3	N/A	1,5a
14D431K-H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1120	275	430	3	N/A	1, 5a
14D470K	5	30	AC	1	N/A	-40	105	Ld-Ld	-	140	30	47	0.25	N/A	1,5a
14D471K	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1280	300	470	3	N/A	1,5a
14D471K-H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1190	300	470	3	N/A	1, 5a
14D511K	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1340	320	510	3	N/A	1,5a
14D511K-H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1250	320	510	3	N/A	1, 5a
14D560K	5	35	AC	1	N/A	-40	105	Ld-Ld	-	160	35	56	0.25	N/A	1,5a
14D561K	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1440	350	560	3	N/A	1,5a
14D561K-H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1350	350	560	3	N/A	1, 5a
14D621K	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1560	385	620	3	N/A	1,5a
14D621K-H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1460	385	620	3	N/A	1, 5a

14D680K	5	40	AC	1	N/A	-40	105	Ld-Ld	-	180	40	68	0.25	N/A	1,5a
14D681K	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1670	420	680	3	N/A	1,5a
14D681K-H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1580	420	680	3	N/A	1, 5a
14D751K	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1810	460	750	3	N/A	1,5a
14D751K-H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1710	460	750	3	N/A	1, 5a
14D781K	5	485	AC	1	N/A	-40	125	Ld-Ld	-	1890	485	780	3	N/A	1,5a
14D781K-H	5	485	AC	1	N/A	-40	125	Ld-Ld	-	1790	485	780	3	N/A	1, 5a
14D820K	5	50	AC	1	N/A	-40	125	Ld-Ld	-	450	50	82	3	N/A	1,5a
14D820K-H	5	50	AC	1	N/A	-40	125	Ld-Ld	-	460	50	82	3	N/A	1, 5a
14D821K	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1970	510	820	3	N/A	1,5a
14D821K-H	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1870	510	820	3	N/A	1, 5a
14D911K	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2110	550	910	3	N/A	1,5a
14D911K-H	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2000	550	910	3	N/A	1, 5a
20D101K	5	60	AC	1	N/A	-40	125	Ld-Ld	-	520	60	100	5	N/A	1,5a
20D101K-H	5	60	AC	1	N/A	-40	125	Ld-Ld	-	690	60	100	5	N/A	1, 5a
20D101KT	5	60	AC	1	N/A	-40	125	Ld-Ld	-	610	60	100	5	n/a	1,5a
20D102K	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2400	625	1000	5	N/A	1,5a
20D102K-H	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2320	625	1000	5	N/A	1, 5a
20D112K	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2590	680	1100	5	N/A	1,5a
20D112K-H	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2500	680	1100	5	N/A	1, 5a
20D121K	5	75	AC	1	N/A	-40	125	Ld-Ld	-	560	75	120	5	N/A	1,5a

20D121K-H	5	75	AC	1	N/A	-40	125	Ld-Ld	-	710	75	120	5	N/A	1, 5a
20D121KT	5	75	AC	1	N/A	-40	125	Ld-Ld	-	640	75	120	5	n/a	1,5a
20D151K	5	95	AC	1	N/A	-40	125	Ld-Ld	-	610	95	150	5	N/A	1,5a
20D151K-H	5	95	AC	1	N/A	-40	125	Ld-Ld	-	740	95	150	5	N/A	1, 5a
20D151KT	5	95	AC	1	N/A	-40	125	Ld-Ld	-	690	95	150	5	n/a	1,5a
20D180K	5	11	AC	1	N/A	-40	105	Ld-Ld	-	120	11	18	0.5	N/A	1,5a
20D181K	5	115	AC	1	N/A	-40	125	Ld-Ld	-	670	115	180	5	N/A	1,5a
20D181K-H	5	115	AC	1	N/A	-40	125	Ld-Ld	-	760	115	180	5	N/A	1, 5a
20D181KT	5	115	AC	1	N/A	-40	125	Ld-Ld	-	730	115	180	5	n/a	1,5a
20D201K	5	130	AC	1	N/A	-40	125	Ld-Ld	-	710	130	200	5	N/A	1,5a
20D201K-H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	780	130	200	5	N/A	1, 5a
20D201KT	5	130	AC	1	N/A	-40	125	Ld-Ld	-	770	130	200	5	n/a	1,5a
20D220K	5	14	AC	1	N/A	-40	105	Ld-Ld	-	130	14	22	0.5	N/A	1,5a
20D221K	5	140	AC	1	N/A	-40	125	Ld-Ld	-	740	140	220	5	N/A	1,5a
20D221K-H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	820	140	220	5	N/A	1, 5a
20D221KT	5	140	AC	1	N/A	-40	125	Ld-Ld	-	790	140	220	5	n/a	1,5a
20D241K	5	150	AC	1	N/A	-40	125	Ld-Ld	-	770	150	240	5	N/A	1,5a
20D241K-H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	850	150	240	5	N/A	1, 5a
20D241KT	5	150	AC	1	N/A	-40	125	Ld-Ld	-	820	150	240	5	n/a	1,5a
20D270K	5	17	AC	1	N/A	-40	105	Ld-Ld	-	140	17	27	0.5	N/A	1,5a
20D271K	5	175	AC	1	N/A	-40	125	Ld-Ld	-	850	175	270	5	N/A	1,5a

20D271K-H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	910	175	270	5	N/A	1, 5a
20D271KT	5	175	AC	1	N/A	-40	125	Ld-Ld	-	900	175	270	5	n/a	1,5a
20D301K	5	190	AC	1	N/A	-40	125	Ld-Ld	-	900	190	300	5	N/A	1,5a
20D301K-H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	950	190	300	5	N/A	1, 5a
20D301KT	5	190	AC	1	N/A	-40	125	Ld-Ld	-	940	190	300	5	n/a	1,5a
20D330K	5	20	AC	1	N/A	-40	105	Ld-Ld	-	150	20	33	0.5	N/A	1,5a
20D331K	5	210	AC	1	N/A	-40	125	Ld-Ld	-	970	210	330	5	N/A	1,5a
20D331K-H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1010	210	330	5	N/A	1, 5a
20D331KT	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1000	210	330	5	n/a	1,5a
20D361K	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1040	230	360	5	N/A	1,5a
20D361K-H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1060	230	360	5	N/A	1, 5a
20D361KT	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1070	230	360	5	n/a	1,5a
20D390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	170	25	39	0.5	N/A	1,5a
20D391K	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1100	250	390	5	N/A	1,5a
20D391K-H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1110	250	390	5	N/A	1, 5a
20D391KT	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1130	250	390	5	n/a	1,5a
20D431K	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1180	275	430	5	N/A	1,5a
20D431K-H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1180	275	430	5	N/A	1, 5a
20D431KT	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1200	275	430	5	n/a	1,5a
20D470K	5	30	AC	1	N/A	-40	105	Ld-Ld	-	190	30	47	0.5	N/A	1,5a
20D471K	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1260	300	470	5	N/A	1,5a

20D471K-H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1250	300	470	5	N/A	1, 5a
20D471KT	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1280	300	470	5	n/a	1,5a
20D511K	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1330	320	510	5	N/A	1,5a
20D511K-H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1300	320	510	5	N/A	1, 5a
20D511KT	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1340	320	510	5	n/a	1,5a
20D560K	5	35	AC	1	N/A	-40	105	Ld-Ld	-	210	35	56	0.5	N/A	1,5a
20D561K	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1440	350	560	5	N/A	1,5a
20D561K-H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1400	350	560	5	N/A	1, 5a
20D621K	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1560	385	620	5	N/A	1,5a
20D621K-H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1520	385	620	5	N/A	1, 5a
20D680K	5	40	AC	1	N/A	-40	105	Ld-Ld	-	230	40	68	0.5	N/A	1,5a
20D681K	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1680	420	680	5	N/A	1,5a
20D681K-H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1630	420	680	5	N/A	1, 5a
20D751K	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1820	460	750	5	N/A	1,5a
20D751K-H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1770	460	750	5	N/A	1, 5a
20D781K	5	485	AC	1	N/A	-40	125	Ld-Ld	-	1910	485	780	5	N/A	1,5a
20D781K-H	5	485	AC	1	N/A	-40	125	Ld-Ld	-	1850	485	780	5	N/A	1, 5a
20D820K	5	50	AC	1	N/A	-40	125	Ld-Ld	-	490	50	82	5	N/A	1,5a
20D820K-H	5	50	AC	1	N/A	-40	125	Ld-Ld	-	680	50	82	5	N/A	1, 5a
20D820KT	5	50	AC	1	N/A	-40	125	Ld-Ld	-	590	50	82	5	n/a	1,5a
20D821K	5	510	AC	1	N/A	-40	125	Ld-Ld	-	2000	510	820	5	N/A	1,5a

20D821K-H	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1930	510	820	5	N/A	1, 5a
20D911K	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2140	550	910	5	N/A	1,5a
20D911K-H	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2070	550	910	5	N/A	1, 5a
25D102K	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2390	625	1000	10	N/A	1, 5a
25D102KT	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2510	625	1000	10	n/a	1,5a
25D112K	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2520	680	1100	10	N/A	1, 5a
25D112KT	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2700	680	1100	10	n/a	1,5a
25D122K	5	750	AC	1	N/A	-40	125	Ld-Ld	-	2690	750	1200	10	N/A	1, 5a
25D122KT	5	750	AC	1	N/A	-40	125	Ld-Ld	-	2940	750	1200	10	n/a	1,5a
25D181K	5	115	AC	1	N/A	-40	125	Ld-Ld	-	1050	115	180	10	N/A	1, 5a
25D201K	5	130	AC	1	N/A	-40	125	Ld-Ld	-	1080	130	200	10	N/A	1, 5a
25D221K	5	140	AC	1	N/A	-40	125	Ld-Ld	-	1100	140	220	10	N/A	1, 5a
25D241K	5	150	AC	1	N/A	-40	125	Ld-Ld	-	1130	150	240	10	N/A	1, 5a
25D271K	5	175	AC	1	N/A	-40	125	Ld-Ld	-	1190	175	270	10	N/A	1, 5a
25D301K	5	190	AC	1	N/A	-40	125	Ld-Ld	-	1220	190	300	10	N/A	1, 5a
25D331K	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1270	210	330	10	N/A	1, 5a
25D361K	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1310	230	360	10	N/A	1, 5a
25D391K	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1430	250	390	10	N/A	1, 5a
25D431K	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1500	275	430	10	N/A	1, 5a
25D431KT	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1520	275	430	10	n/a	1,5a
25D471K	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1570	300	470	10	N/A	1, 5a

25D511K	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1620	320	510	10	N/A	1, 5a
25D561K	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1700	350	560	10	N/A	1, 5a
25D621K	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1800	385	620	10	N/A	1, 5a
25D681K	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1890	420	680	10	N/A	1, 5a
25D751K	5	460	AC	1	N/A	-40	125	Ld-Ld	-	2000	460	750	10	N/A	1, 5a
25D781K	5	485	AC	1	N/A	-40	125	Ld-Ld	-	2060	485	780	10	N/A	1, 5a
25D821K	5	510	AC	1	N/A	-40	125	Ld-Ld	-	2120	510	820	10	N/A	1, 5a
25D911K	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2220	550	910	10	N/A	1, 5a
25D911KT	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2260	550	910	10	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.

Marking: Company name or trademark



and model designation and the Recognized Component Mark,



Last Updated on 2021-08-26

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Surge-protective Devices Certified for Canada - Component

SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE CO

E330837

LTD

9 KEJIXI RD

GAOXINQU

SHANTOU, GUANGDONG 515000 China

Cat. No.	SPD Type	Volts (V)	AC/DC/ DC PV	AMPS PH	AMB		Min (°C)	Max (°C)	VPR (Vpk)	MLV (Vpk)	MCOV (V)	Vn (Vdc)	In (kA)	SCCR (kA)	Notes
					AMPS (A)	MODE									
Investigated to CSA C22.2 No. 269															
05D101K	5	60	AC	1	N/A	-40	105	Ld-Ld	-	210	60	100	0.15	N/A	1,5a
05D121K	5	75	AC	1	N/A	-40	105	Ld-Ld	-	230	75	120	0.15	N/A	1,5a
05D151K	5	95	AC	1	N/A	-40	105	Ld-Ld	-	260	95	150	0.15	N/A	1,5a
05D180K	5	11	AC	1	N/A	-40	105	Ld-Ld	-	90	11	18	0.05	N/A	1,5a
05D181K	5	115	AC	1	N/A	-40	105	Ld-Ld	-	300	115	180	0.15	N/A	1,5a
05D201K	5	130	AC	1	N/A	-40	105	Ld-Ld	-	320	130	200	0.15	N/A	1,5a
05D220K	5	14	AC	1	N/A	-40	105	Ld-Ld	-	100	14	22	0.05	N/A	1,5a
05D221K	5	140	AC	1	N/A	-40	105	Ld-Ld	-	460	140	220	0.15	N/A	1,5a
05D241K	5	150	AC	1	N/A	-40	105	Ld-Ld	-	490	150	240	0.15	N/A	1,5a
05D270K	5	17	AC	1	N/A	-40	105	Ld-Ld	-	120	17	27	0.05	N/A	1,5a
05D271K	5	175	AC	1	N/A	-40	105	Ld-Ld	-	580	175	270	0.15	N/A	1,5a
05D301K	5	190	AC	1	N/A	-40	105	Ld-Ld	-	630	190	300	0.15	N/A	1,5a
05D330K	5	20	AC	1	N/A	-40	105	Ld-Ld	-	130	20	33	0.05	N/A	1,5a

05D331K	5	210	AC	1	N/A	-40	105	Ld-Ld	-	700	210	330	0.15	N/A	1,5a
05D361K	5	230	AC	1	N/A	-40	105	Ld-Ld	-	770	230	360	0.15	N/A	1,5a
05D390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	150	25	39	0.05	N/A	1,5a
05D391K	5	250	AC	1	N/A	-40	105	Ld-Ld	-	840	250	390	0.15	N/A	1,5a
05D431K	5	275	AC	1	N/A	-40	105	Ld-Ld	-	930	275	430	0.15	N/A	1,5a
05D471K	5	300	AC	1	N/A	-40	105	Ld-Ld	-	1010	300	470	0.15	N/A	1,5a
05D511K	5	320	AC	1	N/A	-40	105	Ld-Ld	-	1080	320	510	0.15	N/A	1,5a
05D561K	5	350	AC	1	N/A	-40	105	Ld-Ld	-	1080	350	560	0.15	N/A	1,5a
05D820K	5	50	AC	1	N/A	-40	105	Ld-Ld	-	190	50	82	0.15	N/A	1,5a
07D101K	5	60	AC	1	N/A	-40	125	Ld-Ld	-	220	60	100	0.25	N/A	1,5a
07D101K-H	5	60	AC	1	N/A	-40	125	Ld-Ld	-	220	60	100	0.25	N/A	1, 5a
07D121K	5	75	AC	1	N/A	-40	125	Ld-Ld	-	270	75	120	0.25	N/A	1,5a
07D121K-H	5	75	AC	1	N/A	-40	125	Ld-Ld	-	260	75	120	0.25	N/A	1, 5a
07D151K	5	95	AC	1	N/A	-40	125	Ld-Ld	-	330	95	150	0.25	N/A	1,5a
07D151K-H	5	95	AC	1	N/A	-40	125	Ld-Ld	-	310	95	150	0.25	N/A	1, 5a
07D180K	5	11	AC	1	N/A	-40	105	Ld-Ld	-	110	11	18	0.1	N/A	1,5a
07D181K	5	115	AC	1	N/A	-40	125	Ld-Ld	-	390	115	180	0.25	N/A	1,5a
07D181K-H	5	115	AC	1	N/A	-40	125	Ld-Ld	-	370	115	180	0.25	N/A	1, 5a
07D201K	5	130	AC	1	N/A	-40	125	Ld-Ld	-	430	130	200	0.25	N/A	1,5a
07D201K-H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	410	130	200	0.25	N/A	1, 5a
07D220K	5	14	AC	1	N/A	-40	105	Ld-Ld	-	130	14	22	0.1	N/A	1,5a

07D221K	5	140	AC	1	N/A	-40	125	Ld-Ld	-	450	140	220	0.25	N/A	1,5a
07D221K-H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	430	140	220	0.25	N/A	1, 5a
07D241K	5	150	AC	1	N/A	-40	125	Ld-Ld	-	480	150	240	0.25	N/A	1,5a
07D241K-H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	460	150	240	0.25	N/A	1, 5a
07D270K	5	17	AC	1	N/A	-40	105	Ld-Ld	-	140	17	27	0.1	N/A	1,5a
07D271K	5	175	AC	1	N/A	-40	125	Ld-Ld	-	570	175	270	0.25	N/A	1,5a
07D271K-H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	550	175	270	0.25	N/A	1, 5a
07D301K	5	190	AC	1	N/A	-40	125	Ld-Ld	-	620	190	300	0.25	N/A	1,5a
07D301K-H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	600	190	300	0.25	N/A	1, 5a
07D330K	5	20	AC	1	N/A	-40	105	Ld-Ld	-	160	20	33	0.1	N/A	1,5a
07D331K	5	210	AC	1	N/A	-40	125	Ld-Ld	-	690	210	330	0.25	N/A	1,5a
07D331K-H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	670	210	330	0.25	N/A	1, 5a
07D361K	5	230	AC	1	N/A	-40	125	Ld-Ld	-	760	230	360	0.25	N/A	1,5a
07D361K-H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	740	230	360	0.25	N/A	1, 5a
07D390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	190	25	39	0.1	N/A	1,5a
07D391K	5	250	AC	1	N/A	-40	125	Ld-Ld	-	820	250	390	0.25	N/A	1,5a
07D391K-H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	800	250	390	0.25	N/A	1, 5a
07D431K	5	275	AC	1	N/A	-40	125	Ld-Ld	-	910	275	430	0.25	N/A	1,5a
07D431K-H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	890	275	430	0.25	N/A	1, 5a
07D470K	5	30	AC	1	N/A	-40	105	Ld-Ld	-	210	30	47	0.1	N/A	1,5a
07D471K	5	300	AC	1	N/A	-40	125	Ld-Ld	-	990	300	470	0.25	N/A	1,5a

07D471K-H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	970	300	470	0.25	N/A	1, 5a
07D511K	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1060	320	510	0.25	N/A	1,5a
07D511K-H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1040	320	510	0.25	N/A	1, 5a
07D560K	5	35	AC	1	N/A	-40	105	Ld-Ld	-	240	35	56	0.1	N/A	1,5a
07D561K	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1080	350	560	0.25	N/A	1,5a
07D561K-H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1070	350	560	0.25	N/A	1, 5a
07D621K	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1180	385	620	0.25	N/A	1,5a
07D621K-H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1180	385	620	0.25	N/A	1, 5a
07D680K	5	40	AC	1	N/A	-40	105	Ld-Ld	-	270	40	68	0.1	N/A	1,5a
07D681K	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1270	420	680	0.25	N/A	1,5a
07D681K-H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1290	420	680	0.25	N/A	1, 5a
07D681KT	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1280	420	680	0.25	n/a	1,5a
07D820K	5	50	AC	1	N/A	-40	125	Ld-Ld	-	190	50	82	0.25	N/A	1,5a
07D820K-H	5	50	AC	1	N/A	-40	125	Ld-Ld	-	190	50	82	0.25	N/A	1, 5a
10D101K	5	60	AC	1	N/A	-40	125	Ld-Ld	-	420	60	100	3	N/A	1,5a
10D101K-H	5	60	AC	1	N/A	-40	125	Ld-Ld	-	550	60	100	3	N/A	1, 5a
10D101KT	5	60	AC	1	N/A	-40	125	Ld-Ld	-	490	60	100	3	n/a	1,5a
10D102K	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2470	625	1000	3	N/A	1,5a
10D102K-H	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2560	625	1000	3	N/A	1, 5a
10D112K	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2670	680	1100	3	N/A	1,5a
10D112K-H	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2770	680	1100	3	N/A	1, 5a

10D121K	5	75	AC	1	N/A	-40	125	Ld-Ld	-	470	75	120	3	N/A	1,5a
10D121K-H	5	75	AC	1	N/A	-40	125	Ld-Ld	-	590	75	120	3	N/A	1, 5a
10D121KT	5	75	AC	1	N/A	-40	125	Ld-Ld	-	530	75	120	3	n/a	1,5a
10D151K	5	95	AC	1	N/A	-40	125	Ld-Ld	-	540	95	150	3	N/A	1,5a
10D151K-H	5	95	AC	1	N/A	-40	125	Ld-Ld	-	640	95	150	3	N/A	1, 5a
10D151KT	5	95	AC	1	N/A	-40	125	Ld-Ld	-	580	95	150	3	n/a	1,5a
10D180K	5	11	AC	1	N/A	-40	105	Ld-Ld	-	80	11	18	0.15	N/A	1,5a
10D181K	5	115	AC	1	N/A	-40	125	Ld-Ld	-	610	115	180	3	N/A	1,5a
10D181K-H	5	115	AC	1	N/A	-40	125	Ld-Ld	-	680	115	180	3	N/A	1, 5a
10D181KT	5	115	AC	1	N/A	-40	125	Ld-Ld	-	640	115	180	3	n/a	1,5a
10D201K	5	130	AC	1	N/A	-40	125	Ld-Ld	-	660	130	200	3	N/A	1,5a
10D201K-H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	720	130	200	3	N/A	1, 5a
10D201KT	5	130	AC	1	N/A	-40	125	Ld-Ld	-	680	130	200	3	n/a	1,5a
10D220K	5	14	AC	1	N/A	-40	105	Ld-Ld	-	90	14	22	0.15	N/A	1,5a
10D221K	5	140	AC	1	N/A	-40	125	Ld-Ld	-	690	140	220	3	N/A	1,5a
10D221K-H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	780	140	220	3	N/A	1, 5a
10D221KT	5	140	AC	1	N/A	-40	125	Ld-Ld	-	730	140	220	3	n/a	1,5a
10D241K	5	150	AC	1	N/A	-40	125	Ld-Ld	-	730	150	240	3	N/A	1,5a
10D241K-H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	810	150	240	3	N/A	1, 5a
10D241KT	5	150	AC	1	N/A	-40	125	Ld-Ld	-	760	150	240	3	n/a	1,5a
10D270K	5	17	AC	1	N/A	-40	105	Ld-Ld	-	100	17	27	0.15	N/A	1,5a

10D271K	5	175	AC	1	N/A	-40	125	Ld-Ld	-	820	175	270	3	N/A	1,5a
10D271K-H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	890	175	270	3	N/A	1, 5a
10D271KT	5	175	AC	1	N/A	-40	125	Ld-Ld	-	840	175	270	3	n/a	1,5a
10D301K	5	190	AC	1	N/A	-40	125	Ld-Ld	-	880	190	300	3	N/A	1,5a
10D301K-H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	940	190	300	3	N/A	1, 5a
10D301KT	5	190	AC	1	N/A	-40	125	Ld-Ld	-	890	190	300	3	n/a	1,5a
10D330K	5	20	AC	1	N/A	-40	105	Ld-Ld	-	120	20	33	0.15	N/A	1,5a
10D331K	5	210	AC	1	N/A	-40	125	Ld-Ld	-	950	210	330	3	N/A	1,5a
10D331K-H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1010	210	330	3	N/A	1, 5a
10D361K	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1030	230	360	3	N/A	1,5a
10D361K-H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1080	230	360	3	N/A	1, 5a
10D390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	140	25	39	0.15	N/A	1,5a
10D391K	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1100	250	390	3	N/A	1,5a
10D391K-H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1140	250	390	3	N/A	1, 5a
10D431K	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1190	275	430	3	N/A	1,5a
10D431K-H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1220	275	430	3	N/A	1, 5a
10D470K	5	30	AC	1	N/A	-40	105	Ld-Ld	-	160	30	47	0.15	N/A	1,5a
10D471K	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1290	300	470	3	N/A	1,5a
10D471K-H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1300	300	470	3	N/A	1, 5a
10D511K	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1360	320	510	3	N/A	1,5a
10D511K-H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1370	320	510	3	N/A	1, 5a

10D560K	5	35	AC	1	N/A	-40	105	Ld-Ld	-	180	35	56	0.15	N/A	1,5a
10D561K	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1470	350	560	3	N/A	1,5a
10D561K-H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1490	350	560	3	N/A	1, 5a
10D621K	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1600	385	620	3	N/A	1,5a
10D621K-H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1620	385	620	3	N/A	1, 5a
10D680K	5	40	AC	1	N/A	-40	105	Ld-Ld	-	200	40	68	0.15	N/A	1,5a
10D681K	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1720	420	680	3	N/A	1,5a
10D681K-H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1760	420	680	3	N/A	1, 5a
10D751K	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1870	460	750	3	N/A	1,5a
10D751K-H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1910	460	750	3	N/A	1, 5a
10D781K	5	485	AC	1	N/A	-40	125	Ld-Ld	-	1960	485	780	3	N/A	1,5a
10D781K-H	5	485	AC	1	N/A	-40	125	Ld-Ld	-	2010	485	780	3	N/A	1, 5a
10D820K	5	50	AC	1	N/A	-40	125	Ld-Ld	-	390	50	82	3	N/A	1,5a
10D820K-H	5	50	AC	1	N/A	-40	125	Ld-Ld	-	530	50	82	3	N/A	1, 5a
10D820KT	5	50	AC	1	N/A	-40	125	Ld-Ld	-	460	50	82	3	n/a	1,5a
10D821K	5	510	AC	1	N/A	-40	125	Ld-Ld	-	2050	510	820	3	N/A	1,5a
10D821K-H	5	510	AC	1	N/A	-40	125	Ld-Ld	-	2110	510	820	3	N/A	1, 5a
10D911K	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2200	550	910	3	N/A	1,5a
10D911K-H	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2260	550	910	3	N/A	1, 5a
14D101K	5	60	AC	1	N/A	-40	125	Ld-Ld	-	490	60	100	3	N/A	1,5a
14D101K-H	5	60	AC	1	N/A	-40	125	Ld-Ld	-	490	60	100	3	N/A	1, 5a

14D102K	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2360	625	1000	3	N/A	1,5a
14D102K-H	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2240	625	1000	3	N/A	1, 5a
14D112K	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2540	680	1100	3	N/A	1,5a
14D112K-H	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2420	680	1100	3	N/A	1, 5a
14D121K	5	75	AC	1	N/A	-40	125	Ld-Ld	-	550	75	120	3	N/A	1,5a
14D121K-H	5	75	AC	1	N/A	-40	125	Ld-Ld	-	540	75	120	3	N/A	1, 5a
14D151K	5	95	AC	1	N/A	-40	125	Ld-Ld	-	620	95	150	3	N/A	1,5a
14D151K-H	5	95	AC	1	N/A	-40	125	Ld-Ld	-	600	95	150	3	N/A	1, 5a
14D180K	5	11	AC	1	N/A	-40	105	Ld-Ld	-	70	11	18	0.25	N/A	1,5a
14D181K	5	115	AC	1	N/A	-40	125	Ld-Ld	-	700	115	180	3	N/A	1,5a
14D181K-H	5	115	AC	1	N/A	-40	125	Ld-Ld	-	660	115	180	3	N/A	1, 5a
14D201K	5	130	AC	1	N/A	-40	125	Ld-Ld	-	760	130	200	3	N/A	1,5a
14D201K-H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	710	130	200	3	N/A	1, 5a
14D220K	5	14	AC	1	N/A	-40	105	Ld-Ld	-	80	14	22	0.25	N/A	1,5a
14D221K	5	140	AC	1	N/A	-40	125	Ld-Ld	-	790	140	220	3	N/A	1,5a
14D221K-H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	740	140	220	3	N/A	1, 5a
14D241K	5	150	AC	1	N/A	-40	125	Ld-Ld	-	820	150	240	3	N/A	1,5a
14D241K-H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	770	150	240	3	N/A	1, 5a
14D270K	5	17	AC	1	N/A	-40	105	Ld-Ld	-	90	17	27	0.25	N/A	1,5a
14D271K	5	175	AC	1	N/A	-40	125	Ld-Ld	-	900	175	270	3	N/A	1,5a
14D271K-H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	840	175	270	3	N/A	1, 5a

14D301K	5	190	AC	1	N/A	-40	125	Ld-Ld	-	940	190	300	3	N/A	1,5a
14D301K-H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	880	190	300	3	N/A	1, 5a
14D330K	5	20	AC	1	N/A	-40	105	Ld-Ld	-	100	20	33	0.25	N/A	1,5a
14D331K	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1000	210	330	3	N/A	1,5a
14D331K-H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	940	210	330	3	N/A	1, 5a
14D361K	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1070	230	360	3	N/A	1,5a
14D361K-H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1000	230	360	3	N/A	1, 5a
14D390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	120	25	39	0.25	N/A	1,5a
14D391K	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1130	250	390	3	N/A	1,5a
14D391K-H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1050	250	390	3	N/A	1, 5a
14D431K	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1200	275	430	3	N/A	1,5a
14D431K-H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1120	275	430	3	N/A	1, 5a
14D470K	5	30	AC	1	N/A	-40	105	Ld-Ld	-	140	30	47	0.25	N/A	1,5a
14D471K	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1280	300	470	3	N/A	1,5a
14D471K-H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1190	300	470	3	N/A	1, 5a
14D511K	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1340	320	510	3	N/A	1,5a
14D511K-H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1250	320	510	3	N/A	1, 5a
14D560K	5	35	AC	1	N/A	-40	105	Ld-Ld	-	160	35	56	0.25	N/A	1,5a
14D561K	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1440	350	560	3	N/A	1,5a
14D561K-H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1350	350	560	3	N/A	1, 5a
14D621K	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1560	385	620	3	N/A	1,5a

14D621K-H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1460	385	620	3	N/A	1, 5a
14D680K	5	40	AC	1	N/A	-40	105	Ld-Ld	-	180	40	68	0.25	N/A	1,5a
14D681K	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1670	420	680	3	N/A	1,5a
14D681K-H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1580	420	680	3	N/A	1, 5a
14D751K	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1810	460	750	3	N/A	1,5a
14D751K-H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1710	460	750	3	N/A	1, 5a
14D781K	5	485	AC	1	N/A	-40	125	Ld-Ld	-	1890	485	780	3	N/A	1,5a
14D781K-H	5	485	AC	1	N/A	-40	125	Ld-Ld	-	1790	485	780	3	N/A	1, 5a
14D820K	5	50	AC	1	N/A	-40	125	Ld-Ld	-	450	50	82	3	N/A	1,5a
14D820K-H	5	50	AC	1	N/A	-40	125	Ld-Ld	-	460	50	82	3	N/A	1, 5a
14D821K	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1970	510	820	3	N/A	1,5a
14D821K-H	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1870	510	820	3	N/A	1, 5a
14D911K	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2110	550	910	3	N/A	1,5a
14D911K-H	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2000	550	910	3	N/A	1, 5a
20D101K	5	60	AC	1	N/A	-40	125	Ld-Ld	-	520	60	100	5	N/A	1,5a
20D101K-H	5	60	AC	1	N/A	-40	125	Ld-Ld	-	690	60	100	5	N/A	1, 5a
20D101KT	5	60	AC	1	N/A	-40	125	Ld-Ld	-	610	60	100	5	n/a	1,5a
20D102K	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2400	625	1000	5	N/A	1,5a
20D102K-H	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2320	625	1000	5	N/A	1, 5a
20D112K	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2590	680	1100	5	N/A	1,5a
20D112K-H	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2500	680	1100	5	N/A	1, 5a

20D121K	5	75	AC	1	N/A	-40	125	Ld-Ld	-	560	75	120	5	N/A	1,5a
20D121K-H	5	75	AC	1	N/A	-40	125	Ld-Ld	-	710	75	120	5	N/A	1, 5a
20D121KT	5	75	AC	1	N/A	-40	125	Ld-Ld	-	640	75	120	5	n/a	1,5a
20D151K	5	95	AC	1	N/A	-40	125	Ld-Ld	-	610	95	150	5	N/A	1,5a
20D151K-H	5	95	AC	1	N/A	-40	125	Ld-Ld	-	740	95	150	5	N/A	1, 5a
20D151KT	5	95	AC	1	N/A	-40	125	Ld-Ld	-	690	95	150	5	n/a	1,5a
20D180K	5	11	AC	1	N/A	-40	105	Ld-Ld	-	120	11	18	0.5	N/A	1,5a
20D181K	5	115	AC	1	N/A	-40	125	Ld-Ld	-	670	115	180	5	N/A	1,5a
20D181K-H	5	115	AC	1	N/A	-40	125	Ld-Ld	-	760	115	180	5	N/A	1, 5a
20D181KT	5	115	AC	1	N/A	-40	125	Ld-Ld	-	730	115	180	5	n/a	1,5a
20D201K	5	130	AC	1	N/A	-40	125	Ld-Ld	-	710	130	200	5	N/A	1,5a
20D201K-H	5	130	AC	1	N/A	-40	125	Ld-Ld	-	780	130	200	5	N/A	1, 5a
20D201KT	5	130	AC	1	N/A	-40	125	Ld-Ld	-	770	130	200	5	n/a	1,5a
20D220K	5	14	AC	1	N/A	-40	105	Ld-Ld	-	130	14	22	0.5	N/A	1,5a
20D221K	5	140	AC	1	N/A	-40	125	Ld-Ld	-	740	140	220	5	N/A	1,5a
20D221K-H	5	140	AC	1	N/A	-40	125	Ld-Ld	-	820	140	220	5	N/A	1, 5a
20D221KT	5	140	AC	1	N/A	-40	125	Ld-Ld	-	790	140	220	5	n/a	1,5a
20D241K	5	150	AC	1	N/A	-40	125	Ld-Ld	-	770	150	240	5	N/A	1,5a
20D241K-H	5	150	AC	1	N/A	-40	125	Ld-Ld	-	850	150	240	5	N/A	1, 5a
20D241KT	5	150	AC	1	N/A	-40	125	Ld-Ld	-	820	150	240	5	n/a	1,5a
20D270K	5	17	AC	1	N/A	-40	105	Ld-Ld	-	140	17	27	0.5	N/A	1,5a

20D271K	5	175	AC	1	N/A	-40	125	Ld-Ld	-	850	175	270	5	N/A	1,5a
20D271K-H	5	175	AC	1	N/A	-40	125	Ld-Ld	-	910	175	270	5	N/A	1, 5a
20D271KT	5	175	AC	1	N/A	-40	125	Ld-Ld	-	900	175	270	5	n/a	1,5a
20D301K	5	190	AC	1	N/A	-40	125	Ld-Ld	-	900	190	300	5	N/A	1,5a
20D301K-H	5	190	AC	1	N/A	-40	125	Ld-Ld	-	950	190	300	5	N/A	1, 5a
20D301KT	5	190	AC	1	N/A	-40	125	Ld-Ld	-	940	190	300	5	n/a	1,5a
20D330K	5	20	AC	1	N/A	-40	105	Ld-Ld	-	150	20	33	0.5	N/A	1,5a
20D331K	5	210	AC	1	N/A	-40	125	Ld-Ld	-	970	210	330	5	N/A	1,5a
20D331K-H	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1010	210	330	5	N/A	1, 5a
20D331KT	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1000	210	330	5	n/a	1,5a
20D361K	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1040	230	360	5	N/A	1,5a
20D361K-H	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1060	230	360	5	N/A	1, 5a
20D361KT	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1070	230	360	5	n/a	1,5a
20D390K	5	25	AC	1	N/A	-40	105	Ld-Ld	-	170	25	39	0.5	N/A	1,5a
20D391K	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1100	250	390	5	N/A	1,5a
20D391K-H	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1110	250	390	5	N/A	1, 5a
20D391KT	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1130	250	390	5	n/a	1,5a
20D431K	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1180	275	430	5	N/A	1,5a
20D431K-H	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1180	275	430	5	N/A	1, 5a
20D431KT	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1200	275	430	5	n/a	1,5a
20D470K	5	30	AC	1	N/A	-40	105	Ld-Ld	-	190	30	47	0.5	N/A	1,5a

20D471K	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1260	300	470	5	N/A	1,5a
20D471K-H	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1250	300	470	5	N/A	1, 5a
20D471KT	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1280	300	470	5	n/a	1,5a
20D511K	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1330	320	510	5	N/A	1,5a
20D511K-H	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1300	320	510	5	N/A	1, 5a
20D511KT	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1340	320	510	5	n/a	1,5a
20D560K	5	35	AC	1	N/A	-40	105	Ld-Ld	-	210	35	56	0.5	N/A	1,5a
20D561K	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1440	350	560	5	N/A	1,5a
20D561K-H	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1400	350	560	5	N/A	1, 5a
20D621K	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1560	385	620	5	N/A	1,5a
20D621K-H	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1520	385	620	5	N/A	1, 5a
20D680K	5	40	AC	1	N/A	-40	105	Ld-Ld	-	230	40	68	0.5	N/A	1,5a
20D681K	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1680	420	680	5	N/A	1,5a
20D681K-H	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1630	420	680	5	N/A	1, 5a
20D751K	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1820	460	750	5	N/A	1,5a
20D751K-H	5	460	AC	1	N/A	-40	125	Ld-Ld	-	1770	460	750	5	N/A	1, 5a
20D781K	5	485	AC	1	N/A	-40	125	Ld-Ld	-	1910	485	780	5	N/A	1,5a
20D781K-H	5	485	AC	1	N/A	-40	125	Ld-Ld	-	1850	485	780	5	N/A	1, 5a
20D820K	5	50	AC	1	N/A	-40	125	Ld-Ld	-	490	50	82	5	N/A	1,5a
20D820K-H	5	50	AC	1	N/A	-40	125	Ld-Ld	-	680	50	82	5	N/A	1, 5a
20D820KT	5	50	AC	1	N/A	-40	125	Ld-Ld	-	590	50	82	5	n/a	1,5a

20D821K	5	510	AC	1	N/A	-40	125	Ld-Ld	-	2000	510	820	5	N/A	1,5a
20D821K-H	5	510	AC	1	N/A	-40	125	Ld-Ld	-	1930	510	820	5	N/A	1, 5a
20D911K	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2140	550	910	5	N/A	1,5a
20D911K-H	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2070	550	910	5	N/A	1, 5a
25D102K	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2390	625	1000	10	N/A	1, 5a
25D102KT	5	625	AC	1	N/A	-40	125	Ld-Ld	-	2510	625	1000	10	n/a	1,5a
25D112K	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2520	680	1100	10	N/A	1, 5a
25D112KT	5	680	AC	1	N/A	-40	125	Ld-Ld	-	2700	680	1100	10	n/a	1,5a
25D122K	5	750	AC	1	N/A	-40	125	Ld-Ld	-	2690	750	1200	10	N/A	1, 5a
25D122KT	5	750	AC	1	N/A	-40	125	Ld-Ld	-	2940	750	1200	10	n/a	1,5a
25D181K	5	115	AC	1	N/A	-40	125	Ld-Ld	-	1050	115	180	10	N/A	1, 5a
25D201K	5	130	AC	1	N/A	-40	125	Ld-Ld	-	1080	130	200	10	N/A	1, 5a
25D221K	5	140	AC	1	N/A	-40	125	Ld-Ld	-	1100	140	220	10	N/A	1, 5a
25D241K	5	150	AC	1	N/A	-40	125	Ld-Ld	-	1130	150	240	10	N/A	1, 5a
25D271K	5	175	AC	1	N/A	-40	125	Ld-Ld	-	1190	175	270	10	N/A	1, 5a
25D301K	5	190	AC	1	N/A	-40	125	Ld-Ld	-	1220	190	300	10	N/A	1, 5a
25D331K	5	210	AC	1	N/A	-40	125	Ld-Ld	-	1270	210	330	10	N/A	1, 5a
25D361K	5	230	AC	1	N/A	-40	125	Ld-Ld	-	1310	230	360	10	N/A	1, 5a
25D391K	5	250	AC	1	N/A	-40	125	Ld-Ld	-	1430	250	390	10	N/A	1, 5a
25D431K	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1500	275	430	10	N/A	1, 5a
25D431KT	5	275	AC	1	N/A	-40	125	Ld-Ld	-	1520	275	430	10	n/a	1,5a

25D471K	5	300	AC	1	N/A	-40	125	Ld-Ld	-	1570	300	470	10	N/A	1, 5a
25D511K	5	320	AC	1	N/A	-40	125	Ld-Ld	-	1620	320	510	10	N/A	1, 5a
25D561K	5	350	AC	1	N/A	-40	125	Ld-Ld	-	1700	350	560	10	N/A	1, 5a
25D621K	5	385	AC	1	N/A	-40	125	Ld-Ld	-	1800	385	620	10	N/A	1, 5a
25D681K	5	420	AC	1	N/A	-40	125	Ld-Ld	-	1890	420	680	10	N/A	1, 5a
25D751K	5	460	AC	1	N/A	-40	125	Ld-Ld	-	2000	460	750	10	N/A	1, 5a
25D781K	5	485	AC	1	N/A	-40	125	Ld-Ld	-	2060	485	780	10	N/A	1, 5a
25D821K	5	510	AC	1	N/A	-40	125	Ld-Ld	-	2120	510	820	10	N/A	1, 5a
25D911K	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2220	550	910	10	N/A	1, 5a
25D911KT	5	550	AC	1	N/A	-40	125	Ld-Ld	-	2260	550	910	10	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.

Marking: Company name or trademark  , model designation and the Recognized Component Mark for Canada,



Last Updated on 2021-08-26

并不是所有出现在本数据库中的公司名称和产品都满足了UL 跟踪检验服务的要求。只有带有 UL 标志的产品，才应该被视为经过 UL 认证，并满足UL 跟踪检验服务的要求。注意查看产品上的标志。

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Rong Lin
SHANTOU FREE TRADE ZONE SONGTIAN ELECTRONIC TECHNOLOGY CO LT
SONGTIAN SCIENCE AND TECHNOLOGY PARK
FREE TRADE ZONE
SHANTOU
GUANGDONG 515071 CHINA

Date: 2020/02/28
Subscriber: None
PartySite: 2246421
File No: E330837
Project No: 20SR5279054
PD No: 20010271
Type: R
PO Number:

Subject: **Procedure And/Or Report Material**

The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
	1		Revised Authorization Page(s)	2020/02/26

Delete Manufacturer PSN 2246421 Factory ID -A8 under File E208107,E330837,E474052.

Inspections at your plant will be conducted under the supervision of Jian Li, 1701,17/F, West Tower,66

Hua cheng da dao, Zhu jiang Xin Cheng,Guangzhou, 510623, China PHONE: +86-20-38872860; FAX: 86-20-3887-2863, EMAIL: UL.InspectionCenter316@ul.com

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at <http://ul.com/aboutul/locations>.

If you'd like to receive updated materials FASTER, UL offers electronic access and/or delivery of this material. For more details, contact UL's Customer Service Professionals as shown above.

This material is provided on behalf of UL LLC(UL) or any authorized licensee of UL.

NBK File

UL INSPECTION CENTER 316



File E330837

Vol 1

Auth. Page 1

Issued: 2009-06-18

Revised: 2020-02-27

FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

COMPONENT - SURGE-PROTECTIVE DEVICES
(VZCA2,VZCA8)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

Applicant: 151081 (Party Site)
SHANTOU HIGH-NEW TECHNOLOGY DEVELOPMNT ZONE SONGTIAN ENTERPRISE
CO LTD
(701335-001) 9 KEJIXI RD
GAOXINQU
SHANTOU
GUANGDONG 515000 CHINA

Recognized Co.: 151081 (Party Site)
SAME AS APPLICANT
(701335-001)

Use of the Mark

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party. The UL Contracting Party for Follow-Up Services is listed in the addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

It is the responsibility of the Applicant, Manufacturer(s), and Recognized Company to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

Additional Responsibilities

Additional responsibilities, duties and requirements for the Applicant and Manufacturers are defined under Additional Resources at the following web-site: <http://www.ul.com/fus>. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the Follow-Up Service Terms referenced below, please contact UL's Customer Service at <http://www.ul.com/aboutul/locations/>, select a location and enter your request, or call the number listed for that location.

Acceptance of Follow-Up Services

The Applicant and the specified Manufacturer(s) and any Recognized Company in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable service agreement is a Global Services Agreement ("GSA"), the Applicant, the specified Manufacturer(s) and any Recognized Company will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of a) use of the prescribed UL Mark, b) acceptance of the factory inspection, or c) payment of the Follow-Up Service fees. The Service Agreement incorporates such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking the following link: <http://services.ul.com/fus-service-terms>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

Use and Ownership of the Follow-Up Service Procedure

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the Applicant, the specified Manufacturer(s), and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Definition of Terms

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

No Third Party Liability

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

Certification Body

UL LLC has signed below solely in its capacity as the certification body to indicate that this Follow-Up Service Procedure fulfills the requirements for certification documentation issued by the certification body.

Bruce A. Mahrenholz
Director
Conformity Assessment Programs (CPO)
UL LLC

LOCATION

2246421 (Party Site)
SHANTOU FREE TRADE ZONE SONGTIAN ELECTRONIC TECHNOLOGY CO LTD
Songtian Science and Technology Park
Free Trade Zone
Shantou
Guangdong 515071 CHINA

Factory ID:

UL Contracting Party for above site is: UL GmbH

GUTACHTEN MIT FERTIGUNGSÜBERWACHUNG CERTIFICATE OF CONFORMITY WITH FACTORY SURVEILLANCE

Shantou High-New Technology
Dev. Zone Songtian Enterprise Co., Ltd.
No. 9 Kejixi Road
Gaoxin District
515041 SHANTOU CITY
Guangdong China
ist berechtigt, für ihr Produkt /
is authorized to use for their product

Varistor
Varistor

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



REG C559 oder/or



oder/or VDE-REG C559

REG C559

Geprüft und zertifiziert nach /
Tested and certified according to

IEC 61051-1:2007
IEC 61051-2:1991
IEC 61051-2-2:1991
IEC 61051-2:1991/AMD1:2009

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

B. Megerle

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:

VDE

Aktenzeichen: 5000368-4790-0001 / 294866

File ref.:

Ausweis-Nr. 40023049

Certificate No.

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2007-12-19

(letzte Änderung / updated 2022-05-09)

Blatt 1
Page

<http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>



Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd., No. 9 Kejixi Road, Gaoxin District,
515041 SHANTOU CITY, Guangdong, CHINA

Aktenzeichen / File ref.

5000368-4790-0001 / 294866 / TL7 / FAB

letzte Änderung / updated

2022-05-09

Datum / Date

2007-12-19

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40023049.

This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40023049.

Varistor

Varistor

Typ(en) / Type(s)

07D820K to 07D681K

10D820K to 10D102K

14D820K to 14D102K

20D820K to 20D102K

25D181K to 25D122K

07D820K-H to 07D681K-H

10D820K-H to 10D102K-H

14D820K-H to 14D102K-H

20D820K-H to 20D102K-H

Weitere Angaben

Siehe Anlagen:

200K1 -200K17 vom 2022-05-09

300M1 - 300M3 vom 2022-05-09

500Z1 vom 2022-05-09

Further information

See appendix:

200K1 -200K17 dated 2022-05-09

300M1 - 300M3 dated 2022-05-09

500Z1 dated 2022-05-09

Zusätzliche Norm

Die im Ausweis aufgeführten Typen erfüllen zusätzlich die Anforderungen der Norm DIN EN 61051-1:2009.

Additional standard

The types listed in the approval also do fulfill the requirements of the standard DIN EN 61051- 1:2009

Der geprüfte Typ erfüllt auch die Anforderungen der Norm IEC 62368-1:2018/G.8.1 und IEC 60950-1:2005/AMD1:2009/AMD2:2013, Annex Q. Die entsprechend genehmigten Typen sind in Anlage 500Z1 zu finden.

The tested type additionally fulfills the requirements of the standard IEC 62368-1:2018/G.8.1 and IEC 60950-1:2005/AMD1:2009/AMD2:2013, Annex Q. The corresponding approved types can be found in appendix 500Z1.

Fortsetzung siehe Blatt 3 /
continued on page 3



VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Blatt /
Certificate No. Page
40023049 3

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd., No. 9 Kejixi Road, Gaoxin District,
515041 SHANTOU CITY, Guangdong, CHINA

Aktenzeichen / *File ref.*

5000368-4790-0001 / 294866 / TL7 / FAB

letzte Änderung / *updated*

2022-05-09

Datum / *Date*

2007-12-19

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 40023049.

This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 40023049.

Weitere Angaben

Further information

Elektroden Material:

"Kupferpaste (Cu)" und "Silberpaste (Ag)"

Electrode Material:

"Copper Paste (Cu)" and "Silver Paste (Ag)"

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Beiblatt /
Certificate No. Supplement
40023049

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Shantou High-New Technology Dev. Zone Songtian Enterprise Co., Ltd., No. 9 Kejixi Road, Gaoxin District,
515041 SHANTOU CITY, Guangdong, CHINA

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Datum / *Date*

2007-12-19

Dieses Beiblatt ist Bestandteil des Gutachtens mit Fertigungsüberwachung Nr. 40023049.

This supplement is part of the Certificate of Conformity with factory surveillance No. 40023049.

Varistor

Varistor

Fertigungsstätte(n)

Place(s) of manufacture

Referenz/*Reference*

30024868

SHANTOU FREE TRADE ZONE SONGTIAN

ELECTRONIC TECHNOLOGY CO.,LTD.

Songtian science and technology

park, Free trade zone

515071 SHANTOU

Guangdong

CHINA

VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Infoblatt /
Certificate No. Info sheet
40023049

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

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Genehmigung zum Benutzen des auf Seite 1 abgebildeten markenrechtlich geschützten Zeichens des VDE:

Grundlage für die Benutzung sind die Allgemeinen Geschäftsbedingungen (AGB) der VDE Prüf- und Zertifizierungsinstitut GmbH (www.vde.com\AGB-Institut). Das Recht zur Benutzung erstreckt sich nur auf die bezeichnete Firma mit den genannten Fertigungsstätten und die oben aufgeführten Produkte mit den zugeordneten Bezeichnungen. Die Fertigungsstätte muss so eingerichtet sein, dass eine gleichmäßige Herstellung der geprüften und zertifizierten Ausführung gewährleistet ist.

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Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE-Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

Approval to use the legally protected Mark of the VDE as shown on the first page:

Basis for the use are the general terms and conditions of the VDE Testing and Certification Institute (www.vde.com\terms-institute). The right to use the mark is granted only to the mentioned company with the named places of manufacture and the listed products with the related type references. The place of manufacture shall be equipped in a way that a constant manufacturing of the certified construction is assured.

The approval is valid as long as the VDE specifications are in force, on which the certification is based on, unless it is withdrawn according to the VDE Testing and Certification Procedure (PM102E).

The validity period of a VDE-GS-Mark Approval may be prolonged on request. In case of changes in legal and / or normative requirements, the validity period of a VDE-GS-Mark Approval may be shortened.

Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.

The approval is solely signed on the first page.

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Genehmigungsausweis Nr.:
Marks Approval No.:

40023049

Aktenzeichen:
File reference:

5000368-4790-0001/294866

Anlage Nr.:
Appendix No.:

300M1

Raum für Vermerke des VDE-Instituts / Space reserved for notes of the VDE Institute

	Aufbau-Übersicht / Constructional data	Seite 1 von 1 / Page 1 of 1	AUe_61051
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1.1	Hersteller Manufacturer	:	Shantou High-New Technology Dev.Zone Songtian Enterprise Co.,Ltd. No.9,Kejixi Road,Gaoxin District 515041,Shantou City,China.							
1.2	Fertigungsstätte(n) Manufacturing site(s)	:	SHANTOU FREE TRADE ZONE SONGTIAN ELECTRONIC TECHNOLOGY CO.,LTD. Songtian science and technology park, Free trade zone, Shantou 515071.CHINA							
2.1	Produktbezeichnung Product designation	:	Varistoren Varistors nach IEC 61051-1 IEC 61051-2 IEC 61051-2-2 according							
2.2	Typenbezeichnung Type designation	:	07D820K to 07D681K; 10D820K to 10D102K; 14D820K to 14D102K; 20D820K to 20D162K; 25D181K to 25D122K							
3.1	Technologie Technology	:	☐	[Metalloxid Varistoren] [Metal oxide varistors]				☐		
3.2	Hersteller des Coating Manufacturer of the coating	:	Weihua Electric Encapsulation							
	Coating - Typ Coating - Type	:	HXF-240							
	Farbe des Coating Colour of the coating	:	all colors							
3.2.1	Isolationsspannung Isolation voltage	:	☒	AC 2500V		☐	AC 1500V			
		:	☐	AC 1000V		☐				
3.3	Betriebstemperatur Operating temperature	:	-40	°C		LCT	[untere Kategorietemperatur] [lower category temperature]			
		:	125	°C		UCT	[obere Kategorietemperatur] [upper category temperature]			
4.22	Klimakategorie [nach IEC 60068-2-30] Climatic category [acc. to IEC 60068-2-30]	:	☐	Tage days	☐	Tage days	☒	Tage days	☐	Tage days
			04		10		21		56	
3.5	Temperaturbeiwert der Spannung Temperature coefficient of voltage	:	-	% / °C [max]						

Offenbach **2022-05-09**
VDE Prüf- und Zertifizierungsinstitut
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Kategorie **EC 2** / Category **EC 2**

Datum / Date: **20210122**

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Genehmigungsausweis Nr.:
Marks Approval No.:

40023049

Aktenzeichen:
File reference:

5000368-4790-0001/294866

Anlage Nr.:
Appendix No.:

300M2

Raum für Vermerke des VDE-Instituts / Space reserved for notes of the VDE Institute

	Aufbau-Übersicht / Constructional data	Seite 1 von 1 / Page 1 of 1	AUe_61051
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1.1	Hersteller Manufacturer	:	Shantou High-New Technology Dev.Zone Songtian Enterprise Co.,Ltd. No.9,Kejixi Road,Gaoxin District 515041,Shantou City,China.							
1.2	Fertigungsstätte(n) Manufacturing site(s)	:	SHANTOU FREE TRADE ZONE SONGTIAN ELECTRONIC TECHNOLOGY CO.,LTD. Songtian science and technology park, Free trade zone, Shantou 515071.CHINA							
2.1	Produktbezeichnung Product designation	:	Varistoren Varistors nach IEC 61051-1 IEC 61051-2 IEC 61051-2-2 according							
2.2	Typenbezeichnung Type designation	:	07D820K-H to 07D681K-H; 10D820K-H to 10D102K-H 14D820K-H to 14D102K-H; 20D820K-H to 20D102K-H							
3.1	Technologie Technology	:	☐	[Metalloxid Varistoren] [Metal oxide varistors]				☐		
3.2	Hersteller des Coating Manufacturer of the coating	:	PELNOX LTD							
	Coating - Typ Coating - Type	:	CE-77(a)							
	Farbe des Coating Colour of the coating	:	all colors							
3.2.1	Isolationsspannung Isolation voltage	:	☒	AC 2500V		☐	AC 1500V			
		:	☐	AC 1000V		☐				
3.3	Betriebstemperatur Operating temperature	:	-40	°C		LCT	[untere Kategorietemperatur] [lower category temperature]			
		:	125	°C		UCT	[obere Kategorietemperatur] [upper category temperature]			
4.22	Klimakategorie [nach IEC 60068-2-30] Climatic category [acc. to IEC 60068-2-30]	:	☐	Tage	☐	Tage	☒	Tage	☐	Tage
			04	days	10	days	21	days	56	days
3.5	Temperaturbeiwert der Spannung Temperature coefficient of voltage	:	-	% / °C [max]						

Offenbach **2022-05-09**
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Marks Approval No.:

40023049

Aktenzeichen:
File reference:

5000368-4790-0001/294866

Anlage Nr.:
Appendix No.:

300M3

Raum für Vermerke des VDE-Instituts / Space reserved for notes of the VDE Institute

	Aufbau-Übersicht / Constructional data	Seite 1 von 1 / Page 1 of 1	AUe_61051
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1.1	Hersteller Manufacturer	:	Shantou High-New Technology Dev.Zone Songtian Enterprise Co.,Ltd. No.9,Kejixi Road,Gaoxin District 515041,Shantou City,China.							
1.2	Fertigungsstätte(n) Manufacturing site(s)	:	SHANTOU FREE TRADE ZONE SONGTIAN ELECTRONIC TECHNOLOGY CO.,LTD. Songtian science and technology park, Free trade zone, Shantou 515071.CHINA							
2.1	Produktbezeichnung Product designation	:	Varistoren Varistors nach IEC 61051-1 IEC 61051-2 IEC 61051-2-2 according							
2.2	Typenbezeichnung Type designation	:	07D820K to 07D681K; 10D820K to 10D102K; 14D820K to 14D102K; 20D820K to 20D162K; 25D181K to 25D122K							
3.1	Technologie Technology	:	☐ [Metalloxid Varistoren] ☐ [Metal oxide varistors]							
3.2	Hersteller des Coating Manufacturer of the coating	:	TIANJIN KAIHUA INSULATION MATERIAL CO LTD							
	Coating - Typ Coating - Type	:	EF-150(K)							
	Farbe des Coating Colour of the coating	:	all colors							
3.2.1	Isolationsspannung Isolation voltage	:	☒ AC 2500V ☐ AC 1500V ☐ AC 1000V ☐							
3.3	Betriebstemperatur Operating temperature	:	-40 °C LCT [untere Kategorietemperatur] LCT [lower category temperature] 125 °C UCT [obere Kategorietemperatur] UCT [upper category temperature]							
4.22	Klimakategorie [nach IEC 60068-2-30] Climatic category [acc. to IEC 60068-2-30]	:	☐ 04 Tage days	☐ 10 Tage days	☒ 21 Tage days	☐ 56 Tage days				
3.5	Temperaturbeiwert der Spannung Temperature coefficient of voltage	:	- % / °C [max]							

Offenbach **2022-05-09**
VDE Prüf- und Zertifizierungsinstitut
VDE Testing and Certification Institute
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Datum / Date: **20210122**

Mr. Lin Rong

5	 VDE-Reg.-Nr.: C559	GUTACHTEN MIT FERTIGUNGSÜBERWACHUNG CERTIFICATE OF WITH FACTORY SURVEILLANCE	Aktenzeichen: 5000368-4790-0001 / 294866 <i>Certificate holder: Shantou High-New Technology</i>	Ausweis-Nr.: <i>Licence No.:</i> 40023049	Datum: 2022-05-09
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Überspannungsschutz Varistoren <i>Surge Suppression Varistors</i>	IEC 60950-1:2005/AMD1:2009/AMD2:2013/Annex Q IEC 62368-1:2018/ G.8.1	Anlage-Nr.: 500Z1 Appendix No.:
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<u>Coating:</u>	For Europe: 230 V		For Japan: 100 V		For USA: 110 V
HXF-240	<u>Typs:</u> 10D431K – 10D681K 14D431K – 14D102K 20D431K – 20D102K 25D431K – 25D122K		<u>Typs:</u> 10D391K – 10D681K 14D201K – 14D102K 20D201K – 20D102K 25D181K – 25D122K		<u>Typs:</u> 10D391K – 10D681K 14D201K – 14D102K 20D201K – 20D102K 25D201K – 25D122K
CE-77(a)	<u>Typs:</u> 10D431K-H – 10D681K-H 14D431K-H – 14D102K-H 20D431K-H – 20D102K-H		<u>Typs:</u> 10D391K-H – 10D681K-H 14D201K-H – 14D102K-H 20D201K-H – 20D102K-H		<u>Typs:</u> 10D391K-H – 10D681K-H 14D201K-H – 14D102K-H 20D201K-H – 20D102K-H
EF-150(K)	<u>Typs:</u> 10D431K – 10D681K 14D431K – 14D102K 20D431K – 20D102K 25D431K – 25D122K		<u>Typs:</u> 10D391K – 10D681K 14D201K – 14D102K 20D201K – 20D102K 25D181K – 25D122K		<u>Typs:</u> 10D391K – 10D681K 14D201K – 14D102K 20D201K – 20D102K 25D201K – 25D122K

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Fachgebiet TL7
Section TL7

VDE