



承认书

SPECIFICATION FOR APPROVAL

制造商 corporation



广东至敏电子有限公司

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桂林至敏电子科技有限公司

GUILIN SEMISAM ELECTRONIC TECHNOLOGY CO., LTD

Add:Floor 1-3 building 5 B18 standard workshop Suqiao Industrial ParkGuilin economic

and Technological Development ZoneGuilin City Guangxi Zhuang Autonomous Region

客户名称:

CUSTOMER :

产品名称:

PART NAME : **SMD 塑封压敏电阻器 SMD Plastic Varistors**

认证型号:

CERTIFIED MODEL :

产品编码:

Product code:

产品料号:

PART No. : **HVR07D***K4032*R 系列**

客户料号:

CUSTOMER P/N :

其他说明:

REMARK :

编制日期: Compile Date:	2023-06-01	修订日期: Revision date:		版本: Edition:	1.0
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供应商确认 Supplier confirmation			
编制 Editor	骆忠全	日期 Date	2023-06-01
审核 Check	张小华	日期 Date	2023-06-01
批准 Approval	张学文	日期 Date	2023-06-01
加盖 印章 Affix a seal			

客户确认 Customer confirmation			
编制 Editor		日期 Date	
审核 Check		日期 Date	
批准 Approval		日期 Date	
加盖 印章 Affix a seal			

	产品名称 Product Name	压敏电阻 HVR 系列 Varistor HVR Type	版本 Edition	1.0
	规格型号 Specification model	HVR07D681K4032HR	修订日期 Revision date	2022-04-20

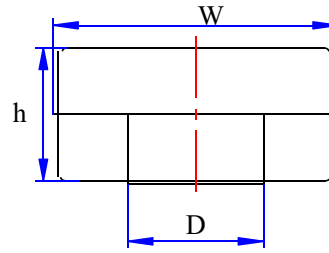
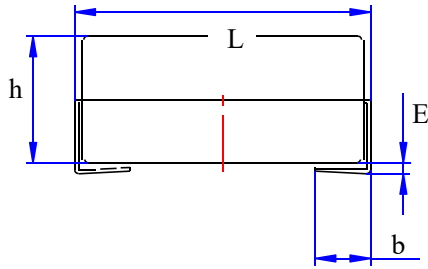
1、产品编码规则 Part Number Code

HVR	07D	***	K	4032	*	R	
1	2	3	4	5	6	7	

编号 No.	项目 Item	编码 Code	说明 Specification
1	产品类型 Product Type	HVR	至敏电子压敏电阻 HVR 系列 “SEMISAM” varistor HVR type
2	芯片尺寸 Chip Size	07D	Φ7
3	压敏电压 Varistor Voltage	390	$39 \times 10^0 = 39V$
4	压敏电压公差 Varistor voltage tolerance	K	±10 %
5	外形尺寸 physical size	4032	40/100”×32/100”(10.4mm×8.2mm)
6	应用代号 Application Code	G	一般浪涌 General surge
		H	高浪涌 High Surge
7	包装 Packaging	R	编带 Carrier tape

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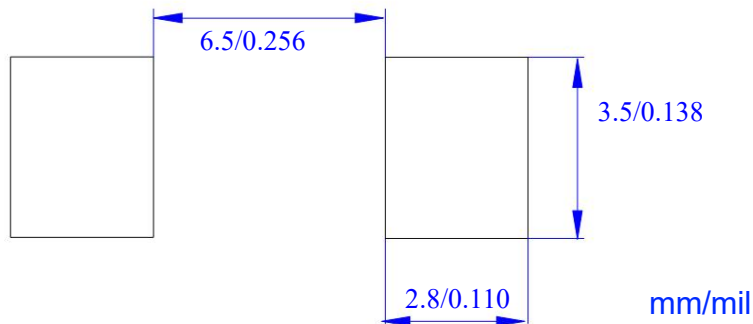
2、外形尺寸 Shape Size



(Unit:mm)

UNIT		L	h	E	b	W	D
mm	max	11.0	4.50	0.3	1.80	8.50	3.30
	min	10.20	3.75	0	1.20	7.90	2.70
mil	max	0.433	0.197	0.012	0.071	0.335	0.130
	min	0.402	0.173	0	0.047	0.331	0.106

3.焊盘布局 Recommended solder pad layout



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4. 电气特性 Electrical Characteristics

Part Number	Maximum Allowable Voltage		Varistor Voltage V _{0.1mA} (V)	Maximum Clamping Voltage		Withstanding Surge Current		Energy 10/1000 μS		Rated Powe (W)	Typical Capacitance (Reference) @ 1 KHzPF
	AC (V)	DC (V)		IP(A)	VC(V)	I(A) Standard	I(A) High Surge	(J) Standard	(J) High Surge		
HVR07D180K4032*R	11	14	18(15.3~20.7)	5	36	500	1000	2.1	3	0.05	5600
HVR07D220K4032*R	14	18	22(19.8~24.2)	5	43	500	1000	2.5	5	0.05	4500
HVR07D270K4032*R	17	22	27(24.3~29.7)	5	53	500	1000	3.0	6	0.05	3700
HVR07D330K4032*R	20	26	33(29.7~36.3)	5	65	500	1000	4.0	7	0.05	3000
HVR07D390K4032*R	25	31	39(35.1~42.9)	5	77	500	1000	4.6	9	0.05	2400
HVR07D470K4032*R	30	38	47(42.3~51.7)	5	93	500	1000	5.5	11	0.05	2100
HVR07D560K4032*R	35	45	56(50.4~61.6)	5	110	500	1000	7.0	13	0.05	1800
HVR07D680K4032*R	40	56	68(61.2~74.8)	5	135	500	1000	8.2	15	0.05	1500
HVR07D820K4032*R	50	65	82(73.8~90.2)	25	135	2500	3500	12	17	0.4	1200
HVR07D101K4032*R	60	85	100(90~110)	25	165	2500	3500	15	18	0.4	1000
HVR07D121K4032*R	75	100	120(108~132)	25	200	2500	3500	18	21	0.4	830
HVR07D151K4032*R	95	125	150(135~165)	25	250	2500	3500	22	25	0.4	670
HVR07D181K4032*R	115	150	180(162~198)	25	300	2500	3500	27	30	0.4	560
HVR07D201K4032*R	130	170	200(185~225)	25	330	2500	3500	30	35	0.4	500
HVR07D221K4032*R	140	180	220(198~242)	25	360	2500	3500	32	39	0.4	450
HVR07D241K4032*R	150	200	240(216~264)	25	395	2500	3500	35	42	0.4	420
HVR07D271K4032*R	175	225	270(243~297)	25	455	2500	3500	37	49	0.4	370
HVR07D301K4032*R	190	250	300(270~330)	25	505	2500	3500	40	54	0.4	330
HVR07D331K4032*R	210	275	330(297~363)	25	550	2500	3500	43	58	0.4	300
HVR07D361K4032*R	230	300	360(324~396)	25	595	2500	3500	47	65	0.4	280
HVR07D391K4032*R	250	320	390(351~429)	25	650	2500	3500	60	70	0.4	260
HVR07D431K4032*R	275	350	430(387~473)	25	710	2500	3500	65	80	0.4	230
HVR07D471K4032*R	300	385	470(423~517)	25	775	2500	3500	67	85	0.4	210
HVR07D511K4032*R	320	415	510(459~561)	25	845	2500	3500	69	90	0.4	200
HVR07D561K4032*R	350	460	560(504~616)	25	920	2500	3500	70	92	0.4	180
HVR07D621K4032*R	385	505	620(558~682)	25	1025	2500	3500	72	95	0.4	160
HVR07D681K4032*R	420	560	680(612~748)	25	1120	2500	3500	75	98	0.4	150
HVR07D751K4032*R	460	615	750(675~825)	25	1240	2500	3500	77	100	0.4	140
HVR07D781K4032*R	485	640	780(702~858)	25	1290	2500	3500	80	105	0.4	130
HVR07D821K4032*R	510	670	820(738~902)	25	1355	2500	3500	85	110	0.4	120
HVR07D911K4032*R	550	745	910(819~ 1001)	25	1500	2500	3500	93	130	0.4	110
HVR07D102K4032*R	625	825	1000(900~1100)	25	1650	2500	3500	102	140	0.4	100
HVR07D112K4032*R	680	895	1100(990~1210)	25	1812	2500	3500	115	150	0.4	90

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5、技术要求 General technical data

Parameter	Value	Unit
Operating temperature	-55 to +125	°C
Storage temperature	-55 to +150	°C
Electric strength	≥ 2.5	kV _{RMS}
Insulation resistance	≥ 100	MΩ

6、贮存条件 Storage condition

6.1 从交货入库到使用时间不大于 24 个月

The time from delivery and storage to use shall not be more than 24 months

6.2 为防止出现焊接问题产品尽量在使用前保持原包装

They should be left in their original packing to avoid soldering problems due to oxidized contacts.

6.3 贮存温度在-25°C ~ 45°C.

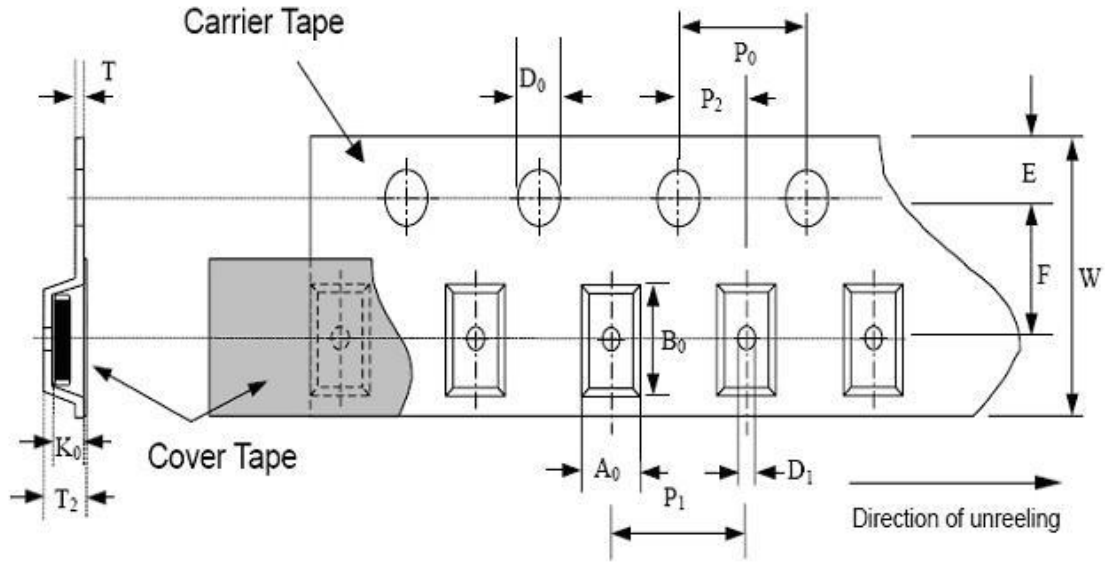
Storage temperature: - 25°C ~ 45°C.

6.4 相对湿度 <75%。

Relative humidity: < 75 %

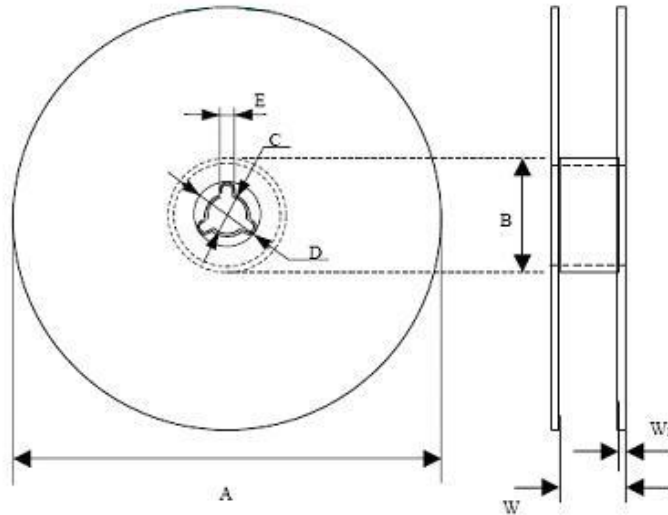
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7、包装 Packing



Type	A_0 ± 0.20	B_0 ± 0.20	K_0 ± 0.10	T max	T_2 max	D_0 +0.05	D_1 ± 0.05	P_1 ± 0.10	P_2 ± 0.05	P_0 ± 0.1	W ± 0.30	E ± 0.10	F ± 0.05
3220	7.0	8.7	3.85	0.3	5.50	1.55	1.55	12.00	2.00	4.00	16.00	1.75	7.50
4032	8.4	10.8	3.85	0.3	5.50	1.55	1.55	12.00	2.00	4.00	24.00	1.75	11.50

卷轴尺寸 Reel dimension



Type	A	B	C	D	E	W-W1	W1
4032	330.0 ± 1.0	60.0 ± 0.5	13.0 ± 0.2	21.0 ± 0.2	2.0 ± 0.5	24.0 ± 0.3	2.3 ± 0.15

包装数量 Quantity of taping packing(pcs) : 1000