型号规格 Part No.	压敏电压 Varistor Voltage V _{1mA} (V)		最大允许 使用电压 Maximum Allowable Voltage		最大限制 电压 Maximum Clamping Voltage	通流容量 Withstanding Surge Current (8/20 µs) 1 time		静态功率 Rated Wattage	能量耐量 Energy (2ms)		静态电容量 (参考值) Typical Capacitance
			AC (V)	DC (V)	V _{10A} (V)	K class (A)	KJ class (A)	(W)	K (J)	KJ (J)	1kHz (PF)
HEL-7D180	18	(16–20)	11	14	• 38	250	500	0.02	0.8	0.9	3,500
HEL-7D220	22	(20–24)	14	18	• 43	250	500	0.02	0.9	1.2	2,800
HEL-7D270	27	(24-30)	17	22	• 53	250	500	0.02	1.1	1.4	2,200
HEL-7D330	33	(30–36)	20	26	• 65	250	500	0.02	1.4	1.7	1,800
HEL-7D390	39	(35–43)	25	31	• 77	250	500	0.02	1.6	2.0	1,450
HEL-7D470	47	(42-52)	30	38	• 93	250	500	0.02	2.0	2.5	1,150
HEL-7D560	56	(50-62)	35	45	• 110	250	500	0.02	2.4	2.9	1,050
HEL-7D680	68	(61–75)	40	56	• 135	250	500	0.02	2.9	3.6	970
HEL-7D820	82	(74–90)	50	65	135	1200	1750	0.25	3.4	4.3	930
HEL-7D101	100	(90–110)	60	85	165	1200	1750	0.25	4.2	5.3	860
HEL-7D121	120	(108–132)	75	100	200	1200	1750	0.25	5.0	6.3	670
HEL-7D151	150	(135–165)	95	125	250	1200	1750	0.25	6.3	7.9	490
HEL-7D181	180	(162–198)	115	150	300	1200	1750	0.25	7.6	9.5	330
HEL-7D201	200	(180–220)	130	170	340	1200	1750	0.25	8.4	10.5	240
HEL-7D221	220	(198–242)	140	180	360	1200	1750	0.25	9.2	11.6	190
HEL-7D241	240	(216–264)	150	200	395	1200	1750	0.25	10.1	12.6	165
HEL-7D271	270	(243–297)	175	225	455	1200	1750	0.25	11.3	14.2	150
HEL-7D301	300	(270–330)	195	250	505	1200	1750	0.25	12.6	15.8	135
HEL-7D331	330	(297–363)	210	275	550	1200	1750	0.25	13.9	17.3	130
HEL-7D361	360	(324–396)	230	300	595	1200	1750	0.25	15.1	18.9	125
HEL-7D391	390	(351-429)	250	320	650	1200	1750	0.25	16.4	20.5	105
HEL-7D431	430	(387–473)	275	350	710	1200	1750	0.25	18.1	22.6	100
HEL-7D471	470	(423–517)	300	385	775	1200	1750	0.25	19.7	24.7	90
HEL-7D511	510	(459–561)	320	418	842	1200	1750	0.25	21.4	26.8	80
HEL-7D561	560	(504–616)	350	460	920	1200	1750	0.25	23.5	29.4	75
HEL-7D621	620	(558–682)	385	505	1025	1200	1750	0.25	26.0	32.6	70
HEL-7D681	680	(612–748)	420	560	1120	1200	1750	0.25	28.6	35.7	65
HEL-7D751	750	(675–825)	460	615	1240	1200	1750	0.25	31.5	39.4	61
HEL-7D781	780	(702–858)	485	640	1290	1200	1750	0.25	32.8	41.0	54
HEL-7D821	820	(738–902)	510	670	1355	1200	1750	0.25	34.4	43.1	48

[·] The clamping voltage from 180K to 680K is tested with current 2.5A, Note: The energy (10/1000 μ s) is about 1.4 times of energy (2ms).

· 180K至680K最大限制电压测试电流是2.5A.

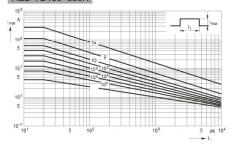
注: 10/1000 μ s的能量耐量值约为2ms能量耐量值的1.4倍

降额曲线图 Derating curves

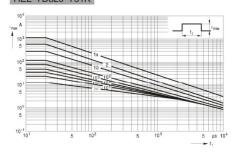
横轴是冲击时间即浪涌波型宽度, 纵轴是冲击电流峰值, 线上的数字是冲击次数;

Maximum surge current imax = f (tr, pulse train)

HEL-7D180-680K



HEL-7D820-751K

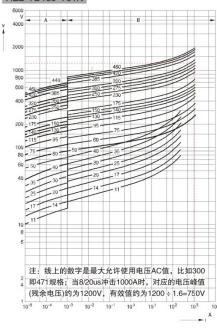


伏安特性图 v/i characteristics

A区是泄漏电流区, A = Leakage current, B区是冲击电流与限制电压对应区

B = Protection level for worst-case varistor tolerances

HEL-7D180-751K



产品尺寸 DIMENSION

单位Unit: mm

产品外型 Product Shape	系列 Series	压敏电压 Varistor Voltage	厚度 Tmax
D max 9	7D	18V~39V	5.5
2		47V~68V	6.0
H max 12		82V~150V	6.5
		180V~270V	7.0
ω		330V~390V	7.5
⊈ d 0.6 ± 0.1		430V~560V	8.0
		620V~780V	8.5
₩ 5.0 ± 1		820V	9.0