

### PART NUMBER CODE

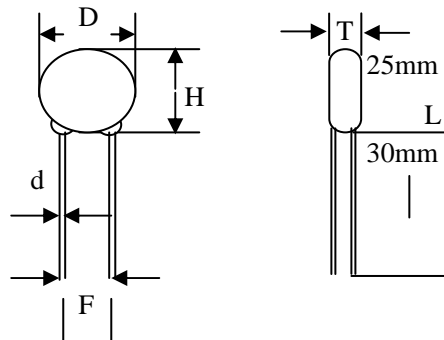
**20 D 220 K**

① ② ③ ④

- ① Element dia.20:  $\phi 20.0\text{mm}$ ;
- ② Disc type;
- ③ Varistor voltage, examples: 220— $22 \times 10^0 = 22\text{V}$ , 221— $22 \times 10^1 = 220\text{V}$ ;
- ④ Tolerance, K= $\pm 10\%$ , or customer special requirement;

### DIMENSIONS

(unit: mm)



D(max)	23mm
F	7.5±0.8/10±1.0mm
H(max)	26.5mm
L	25-30mm
d (±0.02)	0.8/1.0mm

**T Thickness (max)** (unit: mm)

Part Code	20D	Part Code	20D
20D180L	4.8	20D331K	6.0
20D220K	4.9	20D361K	6.2
20D270K	5.0	20D391K	6.4
20D330K	5.2	20D431K	6.7
20D390K	5.5	20D471K	6.9
20D470K	5.6	20D511K	7.0
20D560K	5.7	20D561K	7.2
20D680K	5.8	20D621K	7.5
20D820K	4.9	20D681K	7.8
20D101K	5.1	<b>20D751K</b>	8.2
20D121K	5.3	<b>20D781K</b>	8.3
20D151K	5.6	<b>20D821K</b>	8.5
20D181K	5.0	<b>20D911K</b>	9.0
20D201K	5.2	<b>20D102K</b>	9.5
20D221K	5.3	<b>20D112K</b>	10.1
20D241K	5.4	<b>20D122K</b>	10.6
20D271K	5.5	<b>20D182K</b>	13.2
20D301K	5.7		

### PACKAGING

Model	Component Package	Quantity
20D□□□K	20.0mm	200

**ELECTRICAL CHARACTERISTIC**

Part Number Φ 20.0mm		Maximum allowable voltage		Varistor voltage	Clamping voltage (Max.)			Maximum peak current (8/20μs)		Maximum peak current (8/20μs)		Rated power	Typical capacitance (Reference)
Standard	High surge	AC.rms (V)	DC (V)	V1.0mA (V)	VC (V)	IP (A)	Standard (A)	High surge (A)	Standard (J)	High surge (J)	(W)	@1KHz(pf)	
20D180L	J	10	14	18(15-21)	36	20	2000	3000	11	13	0.20	28500	
20D220K	J	14	18	22(20-24)	43				14	16		18500	
20D270K	J	17	22	27(24-30)	53				16	19		13000	
20D330K	J	20	26	33(30-36)	65				23	24		11500	
20D390K	J	25	31	39(35-43)	77				26	28		8500	
20D470K	J	30	38	47(42-52)	93				30	34		7400	
20D560K	J	35	45	56(50-62)	110				41	41		6500	
20D680K	J	40	56	68(61-75)	135				46	49		5800	
20D820K	J	50	65	85(74-90)	135	100	6500	10000	38	56	1.00	4900	
20D101K	J	60	85	100(90-110)	165				45	70		4000	
20D121K	J	75	100	120(108-132)	200				55	85		3300	
20D151K	J	95	125	150(135-165)	250				70	106		2700	
20D181K	J	115	150	180(162-198)	300				85	130		2200	
20D201K	J	130	170	200(185-225)	340				95	140		2000	
20D221K	J	140	180	220(198-242)	360				100	155		1800	
20D241K	J	150	200	240(216-264)	395				108	168		1650	
20D271K	J	175	225	270(243-297)	455				127	190		1500	
20D301K	J	190	250	300(270-330)	500				136	210		1300	
20D331K	J	210	275	330(297-363)	550				150	228		1200	
20D361K	J	230	300	360(324-396)	595				163	255		1100	
20D391K	J	250	320	390(351-429)	650				180	275		1000	
20D431K	J	275	350	430(387-473)	710				190	305		930	
20D471K	J	300	385	470(426-517)	775				220	350		850	
20D511K	J	320	415	510(459-561)	845				220	360		780	
20D561K	J	350	460	560(504-616)	925				220	380		710	
20D621K	J	385	505	620(558-682)	1025				220	390		650	
20D681K	J	420	560	680(612-748)	1120				230	400		600	
20D751K	J	460	615	750(675-825)	1240				255	420		530	
20D781K	J	485	640	780(702-858)	1290	265	440	510					
20D821K	J	510	670	820(738-902)	1355	282	460	500					
20D911K	J	550	745	910(819-1001)	1500	310	510	440					
20D102K	J	625	825	1000(900-1100)	1650	342	565	400					

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Standard	High surge	AC.rms (V)	DC (V)	V1.0mA (V)	VC (V)	IP (A)	Standard (A)	High surge (A)	Standard (J)	High surge (J)	(W)	@1KHz(pf)
20D112K	J	680	895	1100(990-1210)	1815	100	6500	10000	383	620	1.00	360
20D122K	J	700	990	1200(1080-1320)	1880				408	660		320
20D182K	J	1100	1465	1800(1620-1980)	2970				625	660		320