

Megasurge inrush current limiters are for very high power applications. With energy ratings to 900J these devices are suitable for high power battery chargers, welding machines, compressors, toroidal transformers and high power motor controllers.

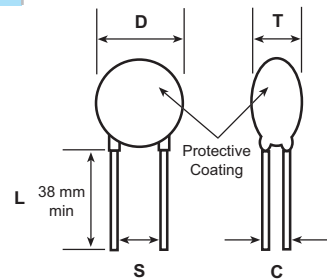
### PART NUMBERING



Part Number	Order Code	Imax Max Steady State Current (Amps)	Resistance at 25°C (ohms)	Resistance Tolerance %	Imax Energy rating (Joules) (Ws)	Vmax Voltage Rating	Max Cap @ max V uF	Resistance at 100% SS current (ohms)	Resistance at 75% SS current (ohms)	Resistance at 50% SS current (ohms)
MS12 15102	K3H83RY	2	150	25	110	440	560	1.05	1.9	2.71
MS22 12103	K3H83RR	3	120	25	220	440	1100	1.2	1.4	2.5
MS22 22103	K3H83TH	3	220	25	75	265	580	1.4	1.67	3
MS15 66003	K3H83RA	3.5	66	25	125	440	600	0.4	0.824	1.73
MS15 40004	K3H83QQ	4	40	25	135	440	700	0.4	0.623	0.96
MS22 50004	K3H83QX	4	50	25	240	440	1200	0.4	0.625	1.1
MS22 75004	K3H83RL	4	75	25	240	440	1200	0.5	0.77	1.35
MS22 20005	K3H83QK	5	20	25	180	440	1000	0.32	0.5	0.72
MS32 20008	K3H83PZ	8	20	25	250	440	1250	0.2	0.33	0.9
MS35 20010	K3H83YL	10	20	25	500	680	1000	0.3	0.4	0.5
MS32 10015	K3H83PT	15	10	25	250	440	1250	0.06	0.1	0.19
MS35 10018	K3H83YA	18	10	25	500	680	1000	0.1	0.32	0.48
MS32 5R020	K3H83PH	20	5	25	300	440	1250	0.035	0.06	0.1
MS32 2R025	K3H83LY	25	2	25	300	440	1500	0.02	0.032	0.06
MS35 5R025	K3H83XQ	25	5	25	600	680	1000	0.05	0.1	0.15
MS35 3R030	K3H83XK	30	3	25	750	680	1250	0.03	0.052	0.08
MS35 2R035	K3H83TZ	35	2	25	750	680	1600	0.02	0.027	0.04
MS32 1R036	K3H83LR	36	1	25	300	440	1500	0.012	0.015	0.03
MS35 1R040	K3H83TT	40	1	25	800	680	1700	0.012	0.02	0.03
MS35 0R550	K3H83TP	50	0.5	25	900	680	2000	0.008	0.013	0.02

### FEATURES

- Up to 50 A
- 0.5 ohm to 220 ohms
- Up to 900 Joules



Part Series	D mm (Nom)	T mm (Nom)	Lead Dia. (mm)	S mm (Nom)	L mm (Nom)	C mm (Nom)
MS12	12.0 Nom	7.0 Nom	1.0 Nom	7.80 Nom	38.0 Nom	3.42 Nom
MS15	15.0 Nom	7.0 Nom	1.0 Nom	7.80 Nom	38.0 Nom	6.70 Nom
MS22	22.0 Nom	7.0 Nom	1.0 Nom	7.80 Nom	38.0 Nom	3.82 Nom
MS32	32.0 Nom	7.0 Nom	1.0 Nom	7.80 Nom	38.0 Nom	4.5 Nom
MS35	35.0 Nom	10 Nom	2.5 Nom	19.0 Nom	39.0 Nom	7.50 Nom

### APPLICATIONS

- power supplies
- AC motors
- motor drives
- audio amplifiers
- battery chargers
- frequency generators
- plasma cutting tools
- MRI machines
- toroidal transformers up to 4.0 KVA



### MOUNTING INRUSH CURRENT LIMITERS

Inrush current limiters may get hot in operation. Use the following guidelines when mounting for best results.

- Do not place on the PCB near temperature sensitive components.
- Use a high temperature solder on the PCB.
- If equipped, use a ceramic spacer to stand off the surge gard from the PCB or contact us for pre-formed devices.
- Keep away from wiring looms.