General

Maida's spark gap components are available either as stand-alone spark gaps or in combination with general-purpose ceramic disk capacitors.

A style 100 stand-alone spark gap as depicted by Figure 3, is simply a precisely dimensioned air-gap between two opposing lead wires which have been formed and insulated from each other so that only the gap is exposed. These components are ideally suited for tape-and-reel packaging for handling by automatic insertion equipment.

All standard combination designs, Figures 1 and 2, employ a Class III capacitor with a temperature characteristic of Z5U as defined by EIA RS-198-C. See page 17 for complete performance specifications for Z5U capacitors. The working voltage of the capacitor is always sufficient to withstand, without damage, the application of a D.C. voltage equal to the upper firing limit of the spark gap. Under normal circuit conditions the capacitor performance is unaffected by the presence of the spark gap.

For either type spark gap, if abnormal circumstances cause a temporary voltage surge which exceeds the rated gap voltage, the surge energy will be harmlessly dissipated by the discharge across the gap. This form of circuit protection requires no component replacement or resetting.

How to Order

Standard Maida spark gaps may be ordered by simply indicating the desired Style Number as listed in the Specifications Table which follows. For special spark gap requirements, please contact our Engineering Department.

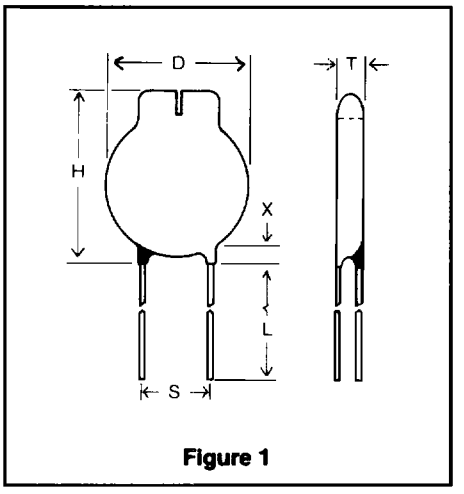

Figure 1

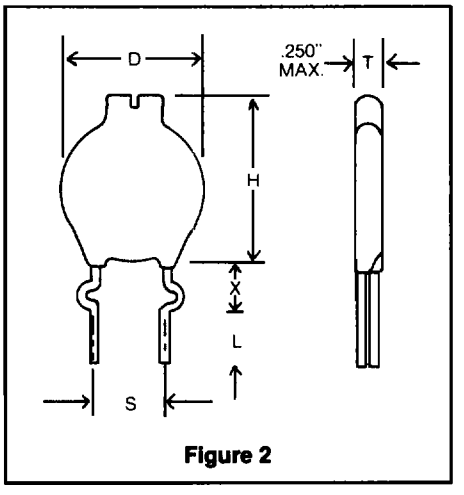

Figure 2

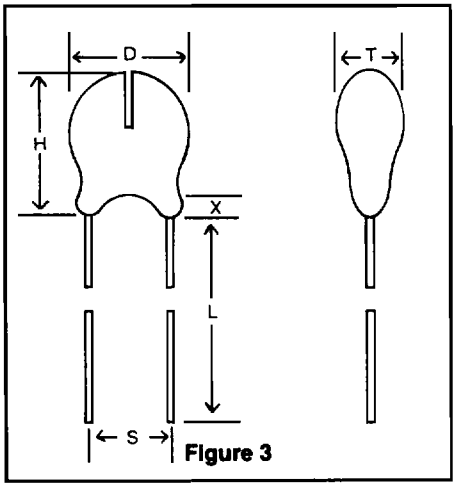

Figure 3

SPARK GAP SPECIFICATIONS TABLE

Style No.	Fig. No.	Cap. pF	Capacitance Tolerance Code	Cap Voltage Range KVDC	D. max.	H max.	T max.	X max.	L Lead Length	S Lead Spacing	W Nom. Wire Diam.
100	3	----	----	1.2-1.8	.440	.565	.185	----	1.25 min.	.200±.015	.025
100-1	3	----	----	1.2-1.8	.440	.565	.185	----	1.25 min.	.200±.015	.032
100-2	3	----	----	1.2-1.8	.440	.565	.185	----	1.25 min.	.250±.015	.025
100-3	3	----	----	1.2-1.8	.440	.565	.185	----	1.25 min.	.250±.015	.032
100-4	3	----	----	1.2-1.8	.440	.565	.220	----	1.25 min.	.200±.031	.025
100-6	3	----	----	1.8-2.5	.440	.565	.185	----	1.25 min.	.250±.040	.025
100-7	3	----	----	2.0-3.0	.440	.565	.185	----	1.25 min.	.250±.040	.025
100-H	3	----	----	3.0-4.5	.440	.565	.185	----	1.25 min.	.200±.031	.025
100-H1	3	----	----	5.0-6.0	.440	.565	.185	----	1.25 min.	.200±.015	.032
101	1	10,000	+80%, -20%	2.0-3.0	.750	1.000	.171	.125	1.25 ± .25	.375±.062	.032
102	1	2,700	+80%, -20%	3.0-4.5	.875	1.125	.250	.125	1.25 min.	.375±.062	.032
108	1	10,000	± 20%	2.0-3.0	.750	1.000	.171	.125	1.25 ± .25	.375±.062	.032
109	1	4,700	± 10%	2.0-3.0	.532	7.57	.250	.125	1.25 min.	.375±.062	.032
111	1	4,700	± 10%	3.0-4.0	.656	.881	.250	.125	1.25 min.	.375±.062	.032
112	1	2,700	+80%, -20%	3.5-5.0	.875	1.125	.250	.125	1.25 min.	.375±.062	.032
117	1	10,000	+80%, -20%	1.8-2.6	.930	1.200	.250	.125	1.25 ± .25	.375±.062	.032
117A	1	10,000	+80%, -20%	1.2-1.8	.750	.845	.200	.125	1.25 min.	.500±.062	.032
124	1	20,000	G.M.V.	1.0-2.0	1.000	1.175	.250	.125	1.375 min.	.375±.062	.032
125	2	1,000	+80%, -20%	2.0-3.0	.437	.620	.250	.187	.188 ± .032	.375±.032	.032
126	1	1,000	+80%, -20%	1.0-2.0	.440	.750	.250	.125	.188+.062,- .016	.250±.062	.032
127	1	1,000	± 20%	1.0-2.0	.500	.675	.250	.125	1.500 min.	.250±.062	.032
127A	1	1,000	± 20%	3.0-4.0	.500	.675	.250	.125	1.50 min.	.250±.062	.032
128	2	1,000	+80%, -20%	1.0-2.0	.440	.620	.250	.242	.188+.032,- .016	.250±.062	.032
130	1	10,000	± 20%	2.0-3.0	.875	1.000	.200	.125	.188 ± .016	.375±.062	.032
132	1	1,000	G.M.V.	2.0-3.0	.420	.570	.250	.032	.188 ± .016	.250±.031	.032
133	2	1,000	G.M.V.	2.0-3.0	.440	.620	.250	.242	.188+.032,- .016	.250±.062	.032
136	2	1,000	+80%, -20%	2.0-3.0	.440	.620	.250	.242	.250 ± .032	.250±.062	.032
137	1	9,000	+80%, -20%	1.0-2.2	.685	.900	.195	.125	1.00 min.	.375±.062	.032
138	1	1,000	± 20%	2.0-3.0	.400	.545	.195	.125	1.25 min.	.250±.062	.032
142	1	10,000	+80%, -20%	1.0-2.0	.750	.875	.185	.125	1.25 min.	.375±.062	.032