JB Series Legend Packet

Contents

The primary purpose of this Legend Packet is to let our customers know that NKK Switches provides full support regarding your legending requirements. The packet is designed to provide information to make your legending choices easy and concise, and to let you know that our availability can range from answering a few questions to guiding you through the entire process. Feel free to acquaint yourself with the following pages specific to your applications, then contact us and let us know how we may be of further assistance. We look forward to serving all you legending needs.

NKK SWITCHES

7850 East Gelding Drive • Scottsdale, Arizona 85260
www.nkkswitches.com • Phone: 480.991.0942 • Fax: 480.998.1435

Customer Request Form

1 Customer Information

Today's Date _____

Company Name _____   Phone (___) _____

Address _____   Fax (___) _____

City _____   State _____   Zip Code _____

Contact Person _____   Email _____

Important! Please complete one Request Form for each legend requested.

2 Switch

Switch Part Number _____   Quantity Requested _____

Cap Part Number _____

Refer to Legend Packet page JB3 if you need assistance.

3 Surface

☐ Lens   ☐ Film Insert   ☐ Other (contact factory) _____

See Legend Packet page JB3 if you need more information on printable surfaces.

4 Font Style and Size

☐ Helvetica Light   ☐ Helvetica Regular   ☐ **Helvetica Bold**   ☐ **Helvetica Black**   ☐ Other Font Style (contact factory)

Font Size: _____ point

Refer to Legend Packet pages JB5 through JB9 to determine your font stye and point size.

5 Characters

1 line	2 lines	3 lines Not Recommended
STOP — Your Legend Text Here	FAN ON — Your Legend Text Here	AC FAN ONLY — Your Legend Text Here
Sample	Sample	Sample

Minimum distance between characters is critical to legibility and cannot be less than .015".

Refer to Legend Packet page JB10 to determine your maximum printable area. Legend Packet pages JB5 through JB9 provide character widths and heights. Note: All legends will be centered unless otherwise indicated.

6

Please make your selections below by checking one box in each row.

Legend Color   ☐ Black   ☐ White   ☐ Other (contact factory)

Printing Method   ☐ Screen Print   ☐ Pad Print   ☐ *Laser Etch   ☐ Other (contact factory)

**Legend Orientation   ☐ Term. nos. 3 and 1 top   ☐ Term. nos. 3 and 1 right side
☐ Term. nos. 3 and 1 bottom   ☐ Term. nos. 3 and 1 left side

*Laser Etch on clear lens only   ***See Legend Packet page JB4 for legend orientation specifications.*

Caps for Nonilluminated

Sculptured Cap

AT4058

Cap
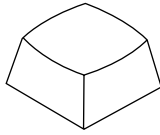
Legend on Cap

Flat Cap

AT4059
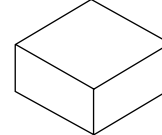
Cap

Legend on Cap

Framed Cap with Button

Button

Frame

Legend on Button

**AT4077 Button and
AT4078 Frame**
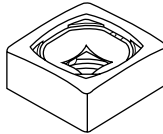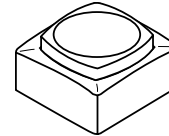
Flat Cap for Right Angle PC

AT4139

Cap
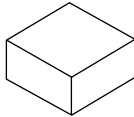
Legend on Cap

Flat Cap for Straight PC
For use with AT547 Mounter

AT4140
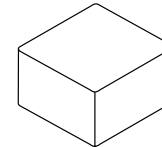
Cap

Legend on Cap

Caps for Illuminated

Flat Cap
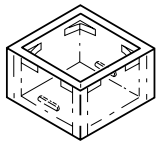
Lens

Film Insert

Diffuser
Frame
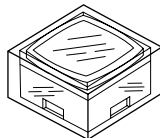
Legend on Lens or Film Insert

Framed Cap with Button

Button
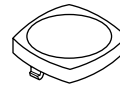
Frame

Legend on Button

**AT4076 Button and
AT4078 Frame**

NKK SWITCHES
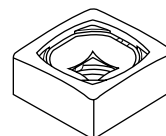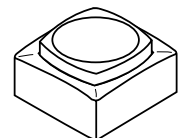
Orientation of Legends in Relation to Terminals

	Sculptured Cap AT4058 Nonilluminated	Flat Cap AT4059 Nonilluminated AT4140 Nonilluminated AT4060 Illuminated (+) and (−) terminals on Illuminated only	Button with Frame AT4077 with AT4078 Nonilluminated AT4076 with AT4078 Illuminated (+) and (−) terminals on Illuminated only	Flat Cap for Right Angle AT4139 Nonilluminated
1 Terminal Numbers 3 and 1 Top	OFF	ON	ON	ON
2 Terminal Numbers 3 and 1 Right Side	OFF	ON	ON	ON
3 Terminal Numbers 3 and 1 Bottom	OFF	ON	ON	ON
4 Terminal Numbers 3 and 1 Left Side	OFF	ON	ON	ON

NKK SWITCHES

The following tables display Helvetica font styles in graduated point sizes. These tables can give you an idea at a glance which size might be most compatible for your legend. For more detailed information on each font style and individual character widths, see pages JB6 through JB9.

HELVETICA LIGHT

Actual Font and Size	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	.063″	.075″	.084″	.092″	.100″	.111″	.120″	.141″	.161″	.189″	.211″	.231″

See page JB6 for the Helvetica Light Font Style table.

HELVETICA REGULAR

Actual Font and Size	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	.064″	.077″	.086″	.096″	.107″	.118″	.129″	.149″	.171″	.189″	.214″	.250″

See page JB7 for the Helvetica Regular Font Style table.

HELVETICA BOLD

Actual Font and Size			EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	n/a	n/a	.086″	.096″	.107″	.117″	.128″	.149″	.170″	.191″	.203″	.234″

See page JB8 for the Helvetica Bold Font Style table.

HELVETICA BLACK

Actual Font and Size			EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	n/a	n/a	.084″	.095″	.106″	.116″	.126″	.149″	.169″	.189″	.211″	.229″

See page JB9 for the Helvetica Black Font Style table.

Note: Minimum distance between characters on any font style is critical to legibility and cannot be less than .015″. Remember to include this dimension *between* each character width when calculating overall legend length.

Helvetica Light

Actual Font and Size	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	.063″	.075″	.084″	.092″	.100″	.111″	.120″	.141″	.161″	.189″	.211″	.231″
Character	**Character Widths in Inches**											
A	.054	.062	.071	.081	.089	.098	.107	.124	.142	.160	.178	.195
B	.044	.053	.053	.068	.075	.083	.089	.104	.117	.134	.148	.163
C	.051	.062	.070	.079	.088	.088	.104	.122	.139	.156	.174	.191
D	.050	.058	.069	.074	.083	.091	.098	.116	.131	.148	.163	.181
E	.042	.049	.055	.063	.069	.076	.076	.096	.109	.123	.137	.150
F	.038	.045	.053	.059	.064	.072	.072	.091	.102	.117	.130	.142
G	.055	.063	.072	.072	.092	.099	.109	.126	.143	.162	.180	.197
H	.048	.056	.063	.072	.079	.087	.095	.110	.125	.142	.158	.174
I	.006	.008	.009	.010	.010	.011	.012	.014	.015	.018	.020	.022
J	.033	.040	.044	.050	.056	.061	.061	.077	.088	.100	.110	.122
K	.048	.056	.063	.071	.079	.088	.088	.110	.127	.145	159	.173
L	.037	.045	.050	.057	.064	.070	.076	.089	.102	.115	.127	.140
M	.058	.065	.077	.086	.096	.104	.114	.132	.151	.171	.189	.206
N	.049	.056	.063	.073	.079	.087	.095	.110	.126	.142	.158	.174
O	.057	.065	.076	.084	.095	.103	.113	.131	.149	.169	.188	.205
P	.043	.050	.056	.064	.070	.076	.084	.097	.112	.126	.139	.152
Q	.057	.066	.076	.085	.094	.105	.113	.131	.149	.168	.186	.206
R	.047	.052	.061	.069	.075	.083	.090	.104	.118	.134	.151	.163
S	.045	.052	.059	.069	.074	.083	.087	.102	.117	.134	.147	.161
T	.045	.051	.059	.069	.073	.082	.088	.102	.116	.133	.146	.161
U	.048	.056	.063	.069	.078	.086	.094	.109	.125	.142	.155	.170
V	.049	.055	.064	.073	.079	.089	.096	.113	.129	.146	.162	.177
W	.073	.084	.096	.109	.121	.133	.145	.168	.192	.216	.241	.264
X	.048	.056	.064	.073	.082	.089	.097	.113	.129	.147	.162	.177
Y	.050	.058	.066	.074	.083	.090	.097	.115	.131	.147	.163	.181
Z	.047	.053	.062	.070	.077	.077	.092	.108	.122	.138	.153	.168
1	.022	.023	.028	.031	.036	.038	.042	.049	.055	.062	.069	.078
2	.041	.047	.053	.059	.065	.072	.078	.093	.105	.117	.131	.145
3	.041	.048	.054	.060	.067	.067	.080	.094	.107	.120	.133	.147
4	.041	.048	.054	.060	.068	.068	.082	.095	.108	.122	.134	.149
5	.040	.046	.053	.059	.067	.073	.079	.092	.105	.118	.131	.145
6	.040	.046	.054	.060	.066	.073	.081	.093	.104	.119	.132	.146
7	.038	.044	.051	.057	.063	.069	.075	.089	.101	.113	.125	.138
8	.040	.046	.052	.060	.060	.072	.078	.092	.106	.117	.131	.144
9	.040	.047	.054	.060	.066	.073	.080	.093	.106	.119	.133	.146
0	.040	.048	.054	.060	.067	.074	.080	.093	.107	.120	.133	.147
.	.005	.007	.008	.010	.010	.013	.013	.014	.017	.019	.019	.023
,	.007	.008	.009	.010	.010	.012	.014	.016	.017	.019	.021	.023
+	.042	.050	.056	.064	.069	.077	.085	.097	.110	.125	.139	.153
-	.021	.025	.029	.032	.036	.039	.043	.051	.056	.064	.071	.078
/	.023	.029	.033	.037	.042	.046	.050	.057	.065	.074	.081	.089

Note: Minimum distance between characters is critical to legibility and cannot be less than .015″.

Helvetica Regular

Actual Font and Size	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	.064″	.077″	.086″	.096″	.107″	.118″	.129″	.149″	.171″	.189″	.214″	.250″
Character	Character Widths in Inches											
A	.054	.063	.072	.081	.089	.097	.108	.126	.142	.159	.178	.196
B	.045	.054	.061	.069	.076	.084	.091	.105	.122	.139	.151	.167
C	.053	.062	.069	.079	.088	.096	.105	.122	.139	.159	.176	.194
D	.048	.056	.065	.073	.082	.090	.097	.112	.129	.145	.161	.178
E	.044	.052	.059	.066	.074	.081	.086	.103	.116	.132	.145	.160
F	.042	.056	.056	.063	.069	.076	.082	.095	.102	.123	.136	.149
G	.056	.064	.075	.085	.094	.103	.111	.130	.147	.167	.185	.204
H	.048	.056	.063	.071	.079	.087	.094	.109	.125	.140	.157	.173
I	.009	.010	.011	.010	.014	.013	.016	.019	.020	.024	.028	.029
J	.035	.041	.047	.051	.057	.064	.070	.081	.090	.102	.115	.127
K	.049	.057	.064	.073	.081	.088	.097	.111	.127	.144	.162	.178
L	.039	.043	.051	.057	.063	.069	.076	.088	.102	.113	.127	.139
M	.059	.067	.077	.086	.096	.107	.116	.134	.155	.173	.191	.211
N	.049	.058	.064	.072	.079	.087	.096	.111	.129	.141	.160	.175
O	.059	.069	.079	.089	.097	.109	.117	.138	.156	.177	.198	.215
P	.044	.052	.058	.066	.074	.082	.089	.103	.115	.133	.148	.161
Q	.058	.069	.079	.089	.099	.108	.117	.139	.157	.177	.198	.216
R	.050	.058	.067	.075	.082	.090	.098	.113	.130	.147	.164	.181
S	.048	.056	.064	.072	.080	.088	.096	.111	.126	.142	.161	.161
T	.049	.056	.063	.071	.080	.089	.097	.111	.127	.142	.161	.176
U	.048	.056	.063	.071	.078	.087	.094	.110	.126	.139	.158	.173
V	.052	.060	.071	.077	.086	.097	.103	.120	.138	.154	.173	.189
W	.076	.089	.101	.114	.128	.138	.153	.178	.204	.227	.251	.280
X	.053	.062	.071	.080	.088	.098	.106	.122	.140	.156	.174	.193
Y	.054	.064	.073	.083	.090	.100	.109	.126	.146	.162	.181	.200
Z	.047	.054	.063	.070	.078	.086	.094	.108	.124	.139	.155	.172
1	.021	.023	.029	.031	.035	.038	.041	.046	.056	.063	.068	.076
2	.041	.047	.055	.061	.066	.074	.078	.093	.107	.119	.134	.146
3	.041	.046	.054	.060	.067	.072	.080	.094	.107	.119	.133	.146
4	.042	.048	.056	.062	.069	.076	.082	.096	.111	.122	.138	.151
5	.041	.048	.054	.061	.067	.074	.080	.093	.107	.120	.134	.148
6	.040	.046	.054	.060	.066	.072	.080	.092	.107	.119	.131	.145
7	.041	.047	.053	.060	.069	.072	.080	.093	.105	.118	.133	.145
8	.040	.046	.053	.060	.066	.073	.079	.092	.107	.119	.133	.147
9	.040	.046	.053	.059	.065	.072	.080	.092	.105	.119	.132	.145
0	.040	.045	.052	.059	.065	.071	.077	.090	.102	.116	.129	.141
.	.009	.011	.012	.014	.015	.016	.017	.020	.023	.027	.029	.031
,	.008	.011	.012	.014	.017	.017	.018	.020	.024	.026	.030	.023
+	.041	.048	.054	.061	.068	.074	.081	.095	.110	.122	.134	.149
-	.020	.023	.026	.030	.034	.037	.041	.048	.054	.061	.066	.074
/	.025	.029	.033	.039	.041	.045	.050	.056	.065	.074	.081	.089

Note: Minimum distance between characters is critical to legibility and cannot be less than .015″.

Helvetica Bold

Actual Font and Size			EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	n/a	n/a	.086″	.096″	.107″	.117″	.128″	.149″	.170″	.191″	.203″	.234″
Character	Character Widths in Inches											
A B C	n/a	n/a	.076 .065 .073	.085 .073 .081	.095 .082 .089	.105 .089 .098	.113 .097 .107	.132 .114 .125	.150 .129 .144	.170 .146 .162	.189 .163 .179	.208 .179 .196
D E F	n/a	n/a	.068 .062 .057	.076 .069 .065	.085 .076 .072	.093 .084 .079	.102 .092 .086	.119 .107 .101	.135 .122 .115	.151 .137 .129	.168 .152 .143	.186 .168 .157
G H I	n/a	n/a	.075 .065 .017	.084 .075 .019	.094 .083 .022	.103 .090 .023	.112 .099 .026	.130 .116 .030	.149 .131 .034	.168 .148 .038	.186 .164 .043	.205 .181 .047
J K L	n/a	n/a	.052 .073 .056	.059 .082 .063	.065 .090 .070	.071 .099 .076	.077 .109 .084	.091 .126 .098	.103 .143 .111	.116 .162 .126	.129 .180 .140	.142 .198 .154
M N O	n/a	n/a	.080 .067 .079	.089 .075 .088	.100 .083 .097	.109 .091 .107	.120 .100 .118	.140 .116 .137	.159 .132 .156	.179 .148 .176	.199 .166 .195	.219 .182 .215
P Q R	n/a	n/a	.063 .077 .067	.070 .088 .076	.078 .098 .083	.086 .108 .092	.095 .118 .100	.109 .137 .116	.124 .157 .133	.140 .175 .149	.155 .195 .167	.171 .216 .184
S T U	n/a	n/a	.068 .065 .065	.076 .074 .073	.084 .082 .082	.092 .089 .089	.102 .098 .098	.118 .115 .114	.135 .131 .129	.151 .147 .145	.168 .163 .162	.185 .180 .177
V W X	n/a	n/a	.069 .102 .070	.078 .116 .081	.087 .129 .089	.096 .142 .098	.104 .155 .106	.122 .180 .122	.140 .206 .140	.157 .230 .159	.175 .256 .176	.191 .281 .193
Y Z 1	n/a	n/a	.069 .062 .035	.078 .069 .039	.087 .077 .043	.096 .084 .049	.105 .092 .053	.122 .108 .060	.139 .122 .069	.156 .138 .078	.175 .153 .086	.191 .168 .096
2 3 4	n/a	n/a	.054 .055 .056	.061 .062 .063	.067 .069 .069	.074 .076 .077	.082 .082 .083	.094 .095 .098	.107 .109 .112	.122 .122 .125	.135 .136 .140	.148 .149 .153
5 6 7	n/a	n/a	.056 .055 .056	.062 .063 .063	.069 .069 .070	.076 .076 .077	.083 .082 .084	.096 .096 .098	.109 .109 .112	.122 .122 .119	.136 .138 .140	.151 .149 .154
8 9 0	n/a	n/a	.056 .055 .055	.063 .061 .062	.069 .069 .069	.078 .076 .076	.085 .083 .081	.099 .096 .096	.112 .109 .109	.127 .122 .122	.140 .135 .137	.154 .149 .150
. , +	n/a	n/a	.017 .017 .054	.019 .020 .061	.021 .022 .068	.023 .023 .075	.026 .026 .081	.030 .030 .096	.033 .034 .108	.038 .038 .122	.043 .043 .135	.047 .047 .148
- /	n/a	n/a	.031 .030	.034 .035	.038 .038	.042 .043	.046 .046	.054 .054	.061 .062	.069 .069	.078 .076	.084 .084

Note: Minimum distance between characters is critical to legibility and cannot be less than .015″.

Actual Font and Size			EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI	EWI
Font Size in Points	6	7	8	9	10	11	12	14	16	18	20	22
Character Height	n/a	n/a	.084″	.095″	.106″	.116″	.126″	.149″	.169″	.189″	.211″	.229″
Character	Character Widths in Inches											
A	n/a	n/a	.085	.096	.106	.116	.127	.148	.170	.186	.211	.233
B			.075	.084	.093	.102	.111	.129	.147	.167	.184	.203
C			.082	.091	.102	.112	.122	.142	.162	.182	.203	.222
D	n/a	n/a	.078	.088	.097	.107	.115	.136	.155	.174	.193	.214
E			.068	.076	.084	.093	.101	.117	.134	.151	.168	.184
F			.063	.071	.079	.087	.094	.110	.125	.141	.157	.173
G	n/a	n/a	.082	.092	.102	.112	.122	.141	.162	.183	.203	.223
H			.078	.088	.097	.108	.117	.136	.155	.175	.194	.212
I			.027	.030	.034	.037	.040	.047	.053	.060	.067	.072
J	n/a	n/a	.065	.072	.081	.088	.096	.112	.127	.142	.159	.175
K			.084	.095	.104	.116	.125	.147	.167	.188	.210	.230
L			.063	.071	.079	.087	.094	.110	.125	.141	.157	.171
M	n/a	n/a	.092	.103	.115	.126	.139	.161	.184	.208	.230	.251
N			.078	.087	.097	.108	.116	.136	.155	.175	.194	.214
O			.085	.095	.106	.116	.126	.148	.168	.190	.211	.231
P	n/a	n/a	.074	.083	.092	.101	.109	.128	.146	.165	.183	.200
Q			.085	.095	.106	.116	.126	.147	.168	.189	.211	.230
R			.076	.087	.096	.105	.115	.135	.153	.172	.192	.212
S	n/a	n/a	.074	.083	.092	.101	.109	.129	.147	.165	.182	.201
T			.074	.084	.093	.102	.110	.129	.147	.166	.185	.203
U			.078	.088	.097	.108	.116	.135	.155	.175	.194	.211
V	n/a	n/a	.083	.093	.102	.112	.123	.142	.164	.184	.205	.226
W			.111	.124	.138	.152	.167	.194	.221	.250	.275	.303
X			.086	.097	.106	.117	.128	.149	.171	.190	.213	.234
Y	n/a	n/a	.086	.098	.109	.119	.129	.150	.172	.194	.215	.237
Z			.073	.082	.090	.100	.109	.127	.145	.163	.181	.199
1			.042	.047	.052	.058	.063	.073	.083	.094	.104	.113
2	n/a	n/a	.068	.076	.083	.091	.100	.117	.132	.149	.167	.183
3			.069	.076	.083	.092	.101	.117	.133	.150	.167	.184
4			.069	.076	.086	.094	.102	.120	.136	.154	.170	.188
5	n/a	n/a	.069	.076	.085	.094	.102	.120	.136	.153	.170	.186
6			.069	.077	.086	.095	.103	.121	.137	.154	.171	.189
7			.064	.072	.080	.088	.096	.111	.127	.142	.158	.175
8	n/a	n/a	.069	.077	.085	.094	.102	.120	.135	.154	.170	.186
9			.069	.077	.085	.096	.102	.121	.136	.155	.170	.189
0			.069	.076	.085	.095	.103	.119	.136	.154	.171	.189
.	n/a	n/a	.023	.027	.030	.033	.036	.042	.048	.053	.060	.066
,			.023	.027	.030	.033	.037	.042	.048	.054	.060	.066
+			.056	.063	.071	.077	.084	.098	.114	.127	.141	.155
-	n/a	n/a	.030	.034	.037	.042	.045	.053	.061	.068	.076	.083
/			.039	.043	.049	.052	.058	.068	.077	.086	.096	.104

Note: Minimum distance between characters is critical to legibility and cannot be less than .015″.

Note: All gray areas represent printable surfaces.

AT 4058 Sculptured Cap, Nonilluminated

1 line maximum height .373"
2 lines maximum height .172"
Maximum width .373"

(0.76) Typ .030
(4.36) Typ .172
(0.38) Typ .015
(9.48) Sq .373
(0.76) Typ .030
(11.0) .433
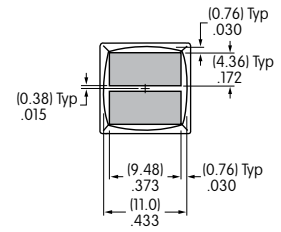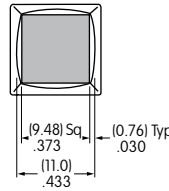
AT4059 and AT4140 Flat Cap, Nonilluminated or AT4060 Flat Cap, Illuminated

1 line maximum height .413"
2 lines maximum height .192"
Maximum width .413"

(0.76) Typ .030
(4.86) Typ .192
(0.38) Typ .015
(10.48) Sq .413
(0.76) Typ .030
(12.0) Sq .472
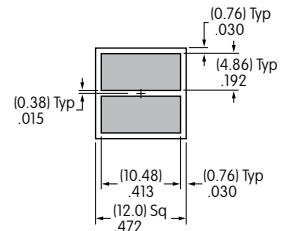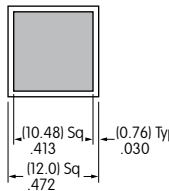
AT4060 Flat Cap, Film Insert Illuminated

1 line maximum height .330"
2 lines maximum height .150"
Maximum width .330"

(0.76) Typ .030
(3.81) Typ .150
(0.38) Typ .015
(8.38) Typ .330
(0.76) Typ .030
(9.9) .390
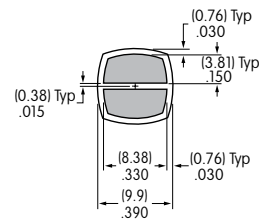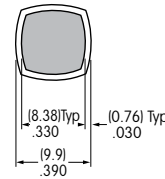
AT4076/AT4078 Framed Cap, Illuminated or AT4077/AT4078 Framed Cap, Nonilluminated

Note maximum space available for 1 or 2 line legends. These dimensions must be considered when choosing a font style and size for printable area on cap.*

*Factory assistance available

(0.38) Typ .015
(3.09) Typ .122
(6.94) .273
(0.76) Typ .030
(8.46) .333
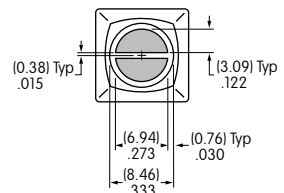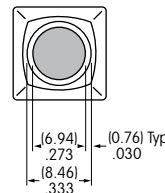
AT4139 Flat Cap, Nonilluminated

1 line maximum height .334"
2 lines maximum height .152"
Maximum width .334"

(0.76) Typ .030
(3.86) Typ .152
(0.38) Typ .015
(8.48) Sq .334
(0.76) Typ .030
(10.0) Sq .394