FEATURES/BENEFITS:

- Metal holder base is resistant to creep to prevent thermal and electrical issues typical at elevated operating temperatures over time.
- COB holding features secures array to holder for ease of installation.
- Stainless steel body provides additional heat sinking paths to allow array to run cooler compared with screws and plastic holders.
- Holder allows for variable wire routing options.

ELECTRICAL:

- Voltage: Class 2/SELV
- Current: Class 2/SELV
- Diameter: 1.378 in (35 mm)
- Height: 0.131 in (3.34 mm)
- Weight: 0.066 oz (1.87 g)
- Screw size: #4 or #5 (M3)
- Screw torque: 2.5-4.5 in-lb (0.3-0.5 Nm)
- Screw circle dia: 1.378 in (35 mm) or 0.984 in (25 mm)
- Wire strip length: 3/16"-7/32" (5 mm)

PHYSICAL:

- Base plate: 301 SS
- Contact housing: Thermoplastic
- Electrical contacts: Copper alloy
- Plating: Silver over nickel
- Temperature: 110°C
- RoHS and REACH compliant halogen free, non-chlorinated & non-brominated flame retardant

STANDARDS & SPECIFICATIONS:

- Recognized component UL 8754 (US/Canada)
- ENEC-364-1000 (Thermal Cycling)
- EIA-364-31 (Thermal Shock & Humidity)
- EIA-364-17 (Elevated Temperature - Life)
- UL 2459 (Current Cycling - Temp Rise)
- IEC 60068-2-7 (Vibration)
- US & Foreign Patents Pending

WIRE RANGE:

<table>
<thead>
<tr>
<th>AWG (UL 496)</th>
<th>METRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-24 AWG</td>
<td>0.25 - 1.00 mm²</td>
</tr>
<tr>
<td>20-22 AWG</td>
<td>0.25 - 0.75 mm²</td>
</tr>
</tbody>
</table>

DIMENSIONS:

ORDERING INFO:

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>MANUFACTURER</th>
<th>COB ARRAY</th>
<th>DIM. A (in/mm)</th>
<th>DIM. B (in/mm)</th>
<th>DIM. C (in/mm)</th>
<th>CARTON QTY</th>
<th>WEIGHT LBS (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-2002CT</td>
<td>Citizen</td>
<td>CLU02x</td>
<td>1.378 (35)</td>
<td>0.984 (25)</td>
<td>N/A</td>
<td>500</td>
<td>2.5 (1.1)</td>
</tr>
<tr>
<td>50-2000CR</td>
<td>CREE</td>
<td>CX_13</td>
<td>1.378 (35)</td>
<td>0.984 (25)</td>
<td>N/A</td>
<td>500</td>
<td>2.5 (1.1)</td>
</tr>
<tr>
<td>50-2001CR</td>
<td>CREE</td>
<td>CX_15</td>
<td>1.378 (35)</td>
<td>0.984 (25)</td>
<td>N/A</td>
<td>500</td>
<td>2.5 (1.1)</td>
</tr>
<tr>
<td>50-3001CR</td>
<td>CREE</td>
<td>CX_18</td>
<td>1.496 (38)</td>
<td>1.236 (31.4)</td>
<td>1.378 (35)</td>
<td>500</td>
<td>3.3 (1.5)</td>
</tr>
<tr>
<td>50-3002CR</td>
<td>CREE</td>
<td>CX_25</td>
<td>1.850 (47)</td>
<td>N/A</td>
<td>1.378 (35)</td>
<td>500</td>
<td>4.1 (1.8)</td>
</tr>
<tr>
<td>50-2002CT</td>
<td>Edison</td>
<td>2PHM05/2PHM09</td>
<td>1.378 (35)</td>
<td>0.984 (25)</td>
<td>N/A</td>
<td>500</td>
<td>2.5 (1.1)</td>
</tr>
<tr>
<td>50-2002CT</td>
<td>Lextar</td>
<td>Nimbus 1000</td>
<td>1.378 (35)</td>
<td>0.984 (25)</td>
<td>N/A</td>
<td>500</td>
<td>2.5 (1.1)</td>
</tr>
<tr>
<td>50-2000P</td>
<td>Lumileds</td>
<td>1202s</td>
<td>1.378 (35)</td>
<td>0.984 (25)</td>
<td>N/A</td>
<td>500</td>
<td>2.5 (1.1)</td>
</tr>
<tr>
<td>50-2002CT</td>
<td>Seoul</td>
<td>SDWx1</td>
<td>1.378 (35)</td>
<td>0.984 (25)</td>
<td>N/A</td>
<td>500</td>
<td>2.5 (1.1)</td>
</tr>
<tr>
<td>50-2000P</td>
<td>Nichia</td>
<td>S024</td>
<td>1.378 (35)</td>
<td>0.984 (25)</td>
<td>N/A</td>
<td>500</td>
<td>2.5 (1.1)</td>
</tr>
<tr>
<td>50-2000P</td>
<td>Sharp</td>
<td>Mini Zenigata</td>
<td>1.378 (35)</td>
<td>0.984 (25)</td>
<td>N/A</td>
<td>500</td>
<td>2.5 (1.1)</td>
</tr>
</tbody>
</table>

ORDERING INFO:

ENGINEERED SOLUTIONS
IDEAL INDUSTRIES, INC.
1375 PARK AVENUE SYCAMORE IL USA 60178
P: 1-800-324-9571
F: 1-888-222-6140
E: oem@idealindustries.com

SALES CONTACT:

REVISION: MARCH 2015
MODEL 50-21
CHIP-LOK®
COB ARRAY HOLDER

FEATURES/BENEFITS:
- METAL HOLDER BASE IS RESISTANT TO CREEP TO PREVENT THERMAL AND ELECTRICAL ISSUES TYPICAL AT ELEVATED OPERATING TEMPERATURES OVER TIME
- COB HOLDING ARM SECURES ARRAY TO HOLDER FOR EASE OF INSTALLATION
- KEYWAYS ALLOW FOR PRE-INSTALLATION OF SCREWS TO EASE ASSEMBLY AND MINIMIZE DAMAGE TO PHOSPHOR
- TOUCH-SAFE DESIGN (ON SOME MODELS) IS UL RECOGNIZED FOR 250V TO ALLOW USE IN DAISY CHAINED APPLICATIONS
- STAINLESS STEEL BODY PROVIDES ADDITIONAL HEAT SINKING PATHS TO ALLOW ARRAY TO RUN COOLER COMPARED WITH SCREWS AND PLASTIC HOLDERS.

ELECTRICAL:

<table>
<thead>
<tr>
<th>VOLTAGE:</th>
<th>250 V MAX (cUL)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 V MAX (ENEC)*</td>
<td></td>
</tr>
<tr>
<td>CURRENT:</td>
<td>4 A MAX (cUL)*</td>
</tr>
<tr>
<td></td>
<td>2 A MAX (ENEC)</td>
</tr>
</tbody>
</table>

MECHANICAL:

| DIAMETER:         | 1.97 in (50.0 m)       |
| HEIGHT:           | 0.28 in (7.2 mm) MAX   |
| WEIGHT:           | 0.28 oz (7.8 grams)    |
| SCREW SIZE:       | #4 or #5 (M3)          |
| SCREW TORQUE:     | 2.5-4.5 in-lb (0.3-0.5 Nm) |
| SCREW CIRCLE DIA: | 1.38 in (35.0 mm)      |
| WIRE STRIP LENGTH:| 1/4"-5/16" (7 mm)      |

*SEE ORDERING INFORMATION BELOW FOR EXCEPTIONS

PHYSICAL:

| BASE PLATE:       | 301 SS                  |
| CONTACT HOUSING:  | THERMOPLASTIC           |
| ELECTRICAL CONTACTS: | COPPER ALLOY          |
| PLATING:          | SILVER OVER NICKEL      |
| TEMPERATURE:      | 110°C                   |
| RoHS AND REACH COMPLIANT HALOGEN FREE, NON-CHLORINATED & NON-BROMINATED FLAME RETARDENT |

STANDARDS & SPECIFICATIONS:

- RECOGNIZED COMPONENT UL 496 (US/CAN) & ENEC CERTIFIED
- ENEC-364-1000 (THERMAL CYCLING)
- EIA-364-31 (THERMAL SHOCK & HUMIDITY)
- EIA-364-17 (ELEVATED TEMPERATURE - LIFE)
- UL 2459 (CURRENT CYCLING - TEMP RISE)
- IEC 60068-2-7 (VIBRATION)
- US & FOREIGN PATENTS PENDING

WIRE RANGE:

| SOLID           | 18-24 AWG | 0.25 - 1.00 mm² |
| STRANDED        | 18-22 AWG | 0.50 - 1.00 mm² |
| TIN BONDED      | 18-24 AWG | 0.25 - 1.00 mm² |

DIMENSIONS:

- 1.38 in [35 mm]
- 0.28 in [7.2 mm]

ORDERING INFO:

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>MANUFACTURER</th>
<th>COB ARRAY</th>
<th>CARTON QTY</th>
<th>WEIGHT LBS (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-2103CT</td>
<td>CITIZEN</td>
<td>CLU03x</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2101CR</td>
<td>CREE</td>
<td>CX_18</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2102CR</td>
<td>CREE</td>
<td>CX_25</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2103CT</td>
<td>EDISON*</td>
<td>2PHM16/2PHM30*</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2100LG</td>
<td>LG INNOTEK*</td>
<td>LEMWM18*</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2100NC</td>
<td>NICHIA</td>
<td>110/121/204</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2103NC</td>
<td>NICHIA</td>
<td>216/360</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2100NC</td>
<td>PHILIPS</td>
<td>1203</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2102SL</td>
<td>PHILIPS</td>
<td>1204/1205/1208</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2103CT</td>
<td>EDISON*</td>
<td>LCD026</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2100SH</td>
<td>PHILIPS</td>
<td>1204/1205/1208</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2103CT</td>
<td>SHARP</td>
<td>SDWx2/SDWx3</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MEGA ZENIGATA</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
</tbody>
</table>

* ARRAY HAS EXPOSED COMPONENTS; CLASS 2/SELV APPLICATIONS ONLY UNLESS LUMINARIE PROVIDES SUFFICIENT ELECTRICAL PROTECTION.

SALES CONTACT:

ENGINEERED SOLUTIONS
IDEAL INDUSTRIES, INC.
1375 PARK AVENUE SYCAMORE IL USA 60178
P: 1-800-324-9571 F: 1-888-222-6140
E: oem@idealindustries.com

REVISION: MARCH 2015
MODEL 50-22

CHIP-LOK®

COB ARRAY HOLDER

FEATURES/BENEFITS:
- Metal holder base is resistant to creep to prevent thermal and electrical issues typical at elevated operating temperatures over time
- COB holding arm secures array to holder for ease of installation
- Keyways allow for pre-installation of screws to ease assembly and minimize damage to phosphor
- Touch-safe design (on some models) is UL recognized for 250V to allow use in daisy chained applications
- Stainless steel body provides additional heat sinking paths to allow array to run cooler compared with screws and plastic holders

ELECTRICAL:
- Voltage: 250 V MAX (cUL)*
- Current: 2 A MAX (cUL)*
- Voltage: 150 V MAX (ENEC)*
- Current: 4 A MAX (cUL)*

MECHANICAL:
- Diameter: 1.97 in (50.0 m)
- Height: 0.27 in (6.98 mm) MAX
- Weight: 0.28 oz (7.8 grams)
- Screw size: #4 or #5 (M3)
- Screw torque: 2.5-4.5 in-lb (0.3-0.5 Nm)
- Screw circle dia: 1.38 in (35.0 mm)
- Wire strip length: 1/4"-5/16" (7 mm)

PHYSICAL:
- Base plate: 301 SS
- Contact housing: THERMOPLASTIC
- Electrical contacts: COPPER ALLOY
- Plating: SILVER OVER NICKEL
- Temperature: 110°C

STANDARDS & SPECIFICATIONS:
- Recognized component UL 496 (US/CAN) & ENEC CERTIFIED
- EIA-364-1000 (Thermal Cycling)
- EIA-364-31 (Thermal Shock & Humidity)
- EIA-364-17 (Elevated Temperature - Life)
- UL 2459 (Current Cycling - Temp Rise)
- IEC 60068-2-7 (Vibration)
- RoHS and REACH Compliant Halogen Free, Non-Chlorinated & Non- Brominated Flame Retardent
- US & Foreign Patents Pending

WIRE RANGE:
- Solid: 18-24 AWG
- Stranded: 18-22 AWG
- Tin bonded: 18-24 AWG

DIMENSIONS:

ORDERING INFO:

<table>
<thead>
<tr>
<th>CATALOG #</th>
<th>MANUFACTURER</th>
<th>COB ARRAY</th>
<th>CARTON QTY</th>
<th>WEIGHT LBS (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-2204CT</td>
<td>CITIZEN</td>
<td>CLU04x</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2234C</td>
<td>CREE</td>
<td>CX_30</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2240CT</td>
<td>EDISON*</td>
<td>2PHM40*</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2204CT</td>
<td>L EXTAR*</td>
<td>NIMBUS 2000/3000/5000*</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2204CT</td>
<td>LG INNOTEK*</td>
<td>LEMWM24*</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
<tr>
<td>50-2204CT</td>
<td>SEOUL</td>
<td>SDWx4/SDWx5</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
</tbody>
</table>

* ARRAY HAS EXPOSED COMPONENTS; CLASS 2/SELV APPLICATIONS ONLY UNLESS LUMINARIE PROVIDES SUFFICIENT ELECTRICAL PROTECTION.

ORDERING INFO:

ENGINEERED SOLUTIONS
IDEAL INDUSTRIES, INC.
1375 PARK AVENUE SYCAMORE IL USA 60178
P: 1-800-324-9571
F: 1-888-222-6140
E: oem@idealindustries.com

SALES CONTACT:

REVISION: MARCH 2015
MODEL 50-23
COB ARRAY HOLDER

FEATURES/BENEFITS:
- Metal holder base is resistant to creep to prevent thermal and electrical issues typical at elevated operating temperatures over time.
- COB holding arm secures array to holder for ease of installation.
- Keyways allow for pre-installation of screws to ease assembly and minimize damage to phosphor.
- Touch-safe design (on some models) is UL recognized for 250V to allow use in daisy chained applications.
- Stainless steel body provides additional heat sinking paths to allow array to run cooler compared with screws and plastic holders.

ELECTRICAL:
- Voltage: 250 V Max
- Current: 4 A Max

MECHANICAL:
- Diameter: 2.56 in (65.0 m)
- Height: 0.27 in (6.98 mm) Max
- Weight: 0.39 oz (10.3 grams)
- Screw size: #4 or #5 (M3)
- Screw torque: 2.5-4.5 in-lb (0.3-0.5 Nm)
- Screw circle dia: 1.97 in (50.0 mm)
- Wire strip length: 1/4"-5/16" (7 mm)

PHYSICAL:
- Base plate: 301 SS
- Contact housing: Thermoplastic
- Electrical contacts: Copper alloy
- Plating: Silver over nickel
- Temperature: 110°C

STANDARDS & SPECIFICATIONS:
- RoHS and REACH compliant Halogen free, Non-chlorinated & Non-brominated Flame retardent
- IEC 60068-2-7 (vibration)
- US & Foreign patents pending

WIRE RANGE:

<table>
<thead>
<tr>
<th>AWG (UL 496)</th>
<th>METRIC (ENEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>18-24 AWG</td>
</tr>
<tr>
<td>Stranded</td>
<td>18-22 AWG</td>
</tr>
<tr>
<td>Tin Bonded</td>
<td>18-24 AWG</td>
</tr>
</tbody>
</table>

DIMENSIONS:

ORDERING INFO:

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Manufacturer</th>
<th>COB Array</th>
<th>Carton Qty</th>
<th>Weight Lbs (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-2303CR</td>
<td>Cree</td>
<td>CX_35</td>
<td>500</td>
<td>9.2 (4.2)</td>
</tr>
</tbody>
</table>

SALES CONTACT:

Engineered Solutions
Ideal Industries, Inc.
1375 Park Avenue Sycamore IL USA 60178
P: 1-800-324-9571
F: 1-888-222-6140
E: oem@idealindustries.com

Revision: March 2015