HIGH RELIABILITY
IMAGE SENSOR SOCKETS FOR
ams (formerly CMOSIS)

Featuring Andon's Unique Senstac® Contact

© Andon Electronics 2019
### Sockets

#### Table

<table>
<thead>
<tr>
<th>ams Part Number</th>
<th>Andon Part Number</th>
<th>Pin Ø [in]</th>
<th>Terminal Type</th>
<th>Figure Number</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMV3000 (ADAPTER)</td>
<td>17-08-08-058-321-G10-L14</td>
<td>.010</td>
<td>Surface Mount</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>CMV3000 (SOCKET)</td>
<td>17-08-08-058-XXX-R27-L14</td>
<td>.010</td>
<td>Rollerball</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>CMV2000 (PGA)</td>
<td>10-12-06-095-XXX-R27-L14</td>
<td>.012</td>
<td>Surface Mount</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>CMV4000 (PGA)</td>
<td>10-12-06-095-XXX-R27-L14</td>
<td>.012</td>
<td>Rollerball</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>CMV8000</td>
<td>17-08-08-058-XXX-R27-L14</td>
<td>.010</td>
<td>Surface Mount</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>CMV12000</td>
<td>10-30-07-237-XXX-R27-L14</td>
<td>.012</td>
<td>Rollerball</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>CMV20000</td>
<td>575-18-38-143-XXX-R27-L14</td>
<td>.018</td>
<td>Surface Mount</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>DR-2K-7LCC</td>
<td>690-90-SM-G10-L14-X</td>
<td>.018</td>
<td>Thru-Hole</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>DR-2X2K-7LCC</td>
<td>690-90-SM-G10-L14-X</td>
<td>.018</td>
<td>Surface Mount</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>DR-4K-3.5LCC</td>
<td>690-90-SM-G10-L14-X</td>
<td>.018</td>
<td>Rollerball</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>XF-2336</td>
<td>10-26-28-281-XXX-R27-L14</td>
<td>.012</td>
<td>Surface Mount</td>
<td>9</td>
<td>4</td>
</tr>
<tr>
<td>XF-768</td>
<td>620-44-SM-G10-L14-X</td>
<td>.012</td>
<td>Rollerball</td>
<td>8</td>
<td>3</td>
</tr>
</tbody>
</table>

- Replace "XXX" with Terminal Type
- Replace "+X" with "+1" for index pins or "-0" for none

#### Diagrams

**Fig. 1**
- Thru-Hole: 10-12-06-095-400T4-R27-S14
- Surface Mount: 10-12-06-095-414T4-R27-S14
- Rollerball®: 10-12-06-095-RB501T4-R27-S14

**Fig. 2**
- Thru-Hole: 17-08-08-058-437T-R27-L14
- Surface Mount: 17-08-08-058-329T-R27-L14
- Adapter: 17-08-08-058-321-G10-L14

*See last page for other mounting types including low profile options. Heat sink socket available to reduce heat and noise. Contact Andon for details.*

---

**ANDON PROPRIETARY INFORMATION**

RoHS Compliant

*Socket and adapters are not to scale*
**Sockets**

**ams (formerly CMOSIS) Continued**

**Image Sensor Socket Footprints**

**Units: in [mm]**

![Diagram of socket footprint](image)

**Fig. 3**

**Thru-Hole**: 10-30-07-237-400T4-R27-L14
**Surface Mount**: 10-30-07-237-414T4-R27-L14
**Rollerball®**: 10-30-07-237-RB501T4-R27-L14

**PART NUMBER WITH OPTIONAL WINDOW**

**Thru-Hole**: 10-30-07A-237-400T4-R27-L14 (With Window)
**Surface Mount**: 10-30-07A-237-414T4-R27-L14 (With Window)
**Rollerball®**: 10-30-07A-237-RB501T4-R27-L14 (With Window)

![Diagram of socket footprint](image)

**Fig. 4**

**Thru-Hole**: 575-18-38-143-01M-R27-L14
**Surface Mount**: 575-18-38-143-93M-R27-L14
**Rollerball®**: 575-18-38-143-RB33K-R27-L14

![Diagram of socket footprint](image)

**Fig. 5**

**Thru-Hole**: 575-13-85-065-01M-R27-L14
**Surface Mount**: 575-13-85-065-93M-R27-L14

![Diagram of socket footprint](image)

**Fig. 6**

**Thru-Hole**: IS232-848107T-400T4-R27-L14
**Surface Mount**: IS232-848107T-414T4-R27-L14
**Rollerball®**: IS232-848107T-RB501T4-R27-L14

---

**ANDON PROPRIETARY INFORMATION**

RoHS Compliant

*Sockets are not drawn to scale*

**ANDON ELECTRONICS CORPORATION**

4 Court Drive, Lincoln RI 02865, United States of America

www.andonelectronics.com or www.andonelect.com

Phone 401-333-0388 Fax 401-333-0287

Email Info@andonelect.com

©Copyright 2019 Andon Electronics Corporation. All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the Intended purpose.
AMS (formerly CMOSIS) Continued
Image Sensor Socket Footprints
Units: in [mm]

<table>
<thead>
<tr>
<th>ams Part Number</th>
<th>Andon Part Number</th>
<th>Figure Number</th>
<th>Page Number</th>
<th>Pin QTY.</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>Number of Pins (per side)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DR-2×k-7LCC</td>
<td>690-90-SM-G10-L14-X</td>
<td>7</td>
<td>3</td>
<td>90</td>
<td>.819 (20.80)</td>
<td>.535 (13.59)</td>
<td>.031 (0.80)</td>
<td>54 36 54 36</td>
</tr>
<tr>
<td>DR-2x2k-7LCC</td>
<td>690-90-SM-G10-L14-X</td>
<td>7</td>
<td>3</td>
<td>90</td>
<td>.819 (20.80)</td>
<td>.535 (13.59)</td>
<td>.031 (0.80)</td>
<td>54 36 54 36</td>
</tr>
<tr>
<td>DR-4k-3.5LCC</td>
<td>690-90-SM-G10-L14-X</td>
<td>7</td>
<td>3</td>
<td>90</td>
<td>.819 (20.80)</td>
<td>.535 (13.59)</td>
<td>.031 (0.80)</td>
<td>54 36 54 36</td>
</tr>
<tr>
<td>XFX-768</td>
<td>620-44-SM-G10-L14-X</td>
<td>8</td>
<td>3</td>
<td>44</td>
<td>.500 (12.70)</td>
<td>.500 (12.70)</td>
<td>.050 (1.27)</td>
<td>11 11 11 11</td>
</tr>
</tbody>
</table>

**Fig. 7**
Replace "X" with "+1" for index pins or "+0" for none

**Fig. 8**
Surface Mount: 620-44-SM-G10-L14-X
Replace "X" with "+1" for index pins or "+0" for none

RoHS Compliant
"ANDON PROPRIETARY INFORMATION"
Patented Technology
"Sockets are not drawn to scale"

**ANDON ELECTRONICS CORPORATION**
4 Court Drive, Lincoln, RI 02865, United States of America
www.andonelectronics.com or www.andonelect.com
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelect.com
Sockets

**ams (formerly CMOSIS) Continued**

**Image Sensor Socket Footprints**

*Units: in [mm]*

![Socket Diagram]

**Fig. 9**

*Thru-Hole: 10-26-28-281-400T4-R27-L14*

*Surface Mount: 10-26-28-281-414T4-R27-L14*

Device Extraction Tools Available

<table>
<thead>
<tr>
<th>ams</th>
<th>Andon Part Number</th>
<th>Extraction Tool Number</th>
<th>Figure Number</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMV300</td>
<td>17-08-08-058-XXX-R27-L14</td>
<td>EXT-500</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CMV300 (ADAPTER)</td>
<td>17-08-08-058-XXX-G10-L14</td>
<td>EXT-500</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CMV2000 (PGA)</td>
<td>10-12-06-095-XXX-R27-S14</td>
<td>EXT-500</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CMV4000 (PGA)</td>
<td>10-12-06-095-XXX-R27-S14</td>
<td>EXT-500</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CMV8000</td>
<td>IS232-B48110T-XXX-R27-L14</td>
<td>EXT-1-INSU</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CMV12000</td>
<td>10-30-07-237-XXX-R27-L14</td>
<td>EXT-1-INSU</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DR-2K-7LCC</td>
<td>690-90-SM-G10-L14-X</td>
<td>EXT-LCC-1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DR-2X2K-7LCC</td>
<td>690-90-SM-G10-L14-X</td>
<td>EXT-LCC-1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>DR-4K-3.5LCC</td>
<td>690-90-SM-G10-L14-X</td>
<td>EXT-LCC-1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>OR/ON-2K(LCC)</td>
<td>694-76-SM-G10-L14-X</td>
<td>EXT-LCC-1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>XF-2336</td>
<td>10-26-28-281-XXX-R27-L14</td>
<td>EXT-500</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>XF-768</td>
<td>620-44-SM-G10-L14-X</td>
<td>EXT-LCC-1</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

©Copyright 2019 Andon Electronics Corporation. All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the intended purpose.

“ANDON PROPRIETARY INFORMATION”

RoHS Compliant

*Sockets are not drawn to scale*

Andro (formerly CMOSIS) 01/31/2019

ANDON ELECTRONICS CORPORATION
4 Court Drive, Lincoln RI 02865, United States of America

www.andonelectronics.com or www.andonelect.com
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelect.com
Image Sensor Socket Footprints

Units: in [mm]

Fig. 10
Thru-Hole: 575-20-19A-141-01M-R27-L14
Surface Mount: 575-20-19A-141-93M-R27-L14
Surface Mount Terminals

Material:
Insulator: Hi-Temp UL 94V-O
-L14 Black FR4 Laminate
-S14 Black Nylon 46 30% Glass Filled
Terminal: Brass, per ASTM-B16
Contact: BeCu, Per ASTM-B194
Adapter: Copper Alloy Plated Gold
Solderball: Lead Free 96.5% Tin, 3.0% Silver, 0.5% Copper

Surface Mount Terminals

Technical Information

Terminal Acceptance and Forces

<table>
<thead>
<tr>
<th>Thru-Hole Terminals</th>
<th>Surface Mount Terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thru-Hole Terminal</td>
<td>Accepts Pin Diameter</td>
</tr>
<tr>
<td>-01M</td>
<td>0.018 [0.46]</td>
</tr>
<tr>
<td>-405T4</td>
<td>0.012 [0.30]</td>
</tr>
<tr>
<td>-437T</td>
<td>0.010 [0.25]</td>
</tr>
<tr>
<td>-93M</td>
<td>0.018 [0.46]</td>
</tr>
<tr>
<td>-414T4</td>
<td>0.012 [0.30]</td>
</tr>
<tr>
<td>-RB338K</td>
<td>0.010 [0.25]</td>
</tr>
</tbody>
</table>

Plating: RoHS Compliant
R27 TERMINAL: GOLD / CONTACT: GOLD
OTHER PLATINGs AVAILABLE

“ANDON PROPRIETARY INFORMATION”
RoHS Compliant
Sockets are not drawn to scale
ams (formerly CMOSIS) 01/31/2019
Mounting Options

A. Thru-Hole
B. SMD-Flat Foot
C. ROLLERBALL
D. Carrier with or without solder washer
E. Pin Socket Bulk with or without solder washer

ROLLERBALL® SOCKET

BEFORE SOLDERING
AFTER SOLDERING
PATENTED TECHNOLOGY

ULTRA LOW PROFILE SIP/DIP/PGA CARRIER ASSEMBLY

Before Soldering

Type D

SIP Carrier

Socket Insulator

Ultra Low Profile Terminals

PCB

Available with or without solder washer

During Soldering

After Soldering

SIP Carrier removed after soldering

Ultra Low Profile Terminals

ANDON PROPRIETARY INFORMATION
RoHS Compliant
*Sockets are not drawn to scale
ams (formerly CMOSIS) 01/31/2019

ANDON ELECTRONICS CORPORATION
4 Court Drive, Lincoln RI 02865, United States of America
www.andonelectronics.com or www.andonelect.com
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelect.com

©Copyright 2019 Andon Electronics Corporation, All Rights Reserved. This material is protected under US and other copyrights and may not be copied, sold, or redistributed in any form without written permission of Andon Electronics Corporation. Copyrights and trademarks are property of their respective companies. We reserve the right to change specifications without notice. Andon makes no warranty, expressed or implied, as to the suitability of the sockets for the intended purpose.