HIGH RELIABILITY
IMAGE SENSOR SOCKETS FOR
ams (formerly CMOSIS)

Featuring Andon's Unique Senstac® Contact
## Sockets

### AMS

<table>
<thead>
<tr>
<th>ams Part Number</th>
<th>Andon Part Number</th>
<th>Terminal Type</th>
<th>Pin Ø [in]</th>
<th>Figure Number</th>
<th>Page Number</th>
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<tbody>
<tr>
<td>CHR71000</td>
<td>575-13-85-065-XXX-R27-L14</td>
<td>Thru-Hole</td>
<td>01M</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>CMV300 (ADAPTER)</td>
<td>17-08-08-058-321-G10-L14</td>
<td>Surface Mount</td>
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<td>2</td>
<td>1</td>
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<tr>
<td>CMV300 (SOCKET)</td>
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<td>-</td>
<td>437T</td>
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<td>1</td>
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<tr>
<td>CMV2000 (PGA)</td>
<td>10-12-06-095-XXX-R27-S14</td>
<td>Rollerball®</td>
<td>400T4</td>
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<td>TH-431</td>
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<td>TH-431</td>
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<td>-</td>
<td>-</td>
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<td>3</td>
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<td>-</td>
<td>7</td>
<td>3</td>
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<td>DR-4K-3.5LCC</td>
<td>690-90-SM-G10-L14-X</td>
<td>-</td>
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<td>7</td>
<td>3</td>
</tr>
<tr>
<td>XF-2336</td>
<td>10-26-28-281-XXX-R27-L14</td>
<td>-</td>
<td>400T4</td>
<td>9</td>
<td>5</td>
</tr>
<tr>
<td>XF-768</td>
<td>620-44-SM-G10-L14-X</td>
<td>-</td>
<td>400T4</td>
<td>8</td>
<td>4</td>
</tr>
</tbody>
</table>

Replace "XXX" with Terminal Type

### Figure 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

### Figure 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.

Device Extraction  
Tools Available

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Image Sensor Socket Footprints

Units: in [mm]

**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)

**Fig. 5**

**Device Extraction Tools Available**

**Fig. 4**
Surface Mount: 575-18-38-143-93M-R27-L14

**Fig. 6**
Thru-Hole: IS232-848107T-400T4-R27-L14
Surface Mount: IS232-848107T-414T4-R27-L14
Rollerball®: IS232-848107T-RB501T4-R27-L14
# Sockets

**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</th>
<th>B</th>
<th>C</th>
<th>Number of Pins (per side)</th>
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<td>690-90-SM-G10-L14-X</td>
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<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>
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<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>
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<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>
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<td>XF-768</td>
<td>620-44-SM-G10-L14-X</td>
<td>8</td>
<td>4</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>
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---

**Fig. 7**

**Surface Mount: 690-90-SM-G10-L14-X**

Replace "X" with "*1" for index pins or "<1" for none

---

**ANDON PROPRIETARY INFORMATION**

RoHS Compliant

*Sockets are not drawn to scale*

**ANDON ELECTRONICS CORPORATION**
4 Court Drive, Lincoln RI 02865, United States of America
Extraction Tools for AMS Devices

<table>
<thead>
<tr>
<th>ams Model Number</th>
<th>Andon Part Number</th>
<th>Extraction Tool Number</th>
<th>Figure Number</th>
<th>Page Number</th>
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<td>-</td>
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<td>EXT-500</td>
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<td>-</td>
<td>-</td>
</tr>
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<td>-</td>
</tr>
<tr>
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<td>EXT-1-INSU</td>
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<td>-</td>
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<td>CMV12000</td>
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<td>EXT-1-INSU</td>
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<td>EXT-LCC-1</td>
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<td>EXT-LCC-1</td>
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<td>DR-4K-3.5LCC</td>
<td>690-90-SM-G10-L14-X</td>
<td>EXT-LCC-1</td>
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<td>EXT-LCC-1</td>
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Figure 8
Surface Mount: 620-44-SM-G10-L14-X
Replace "X" with ".01" for index pins or ".001" for none
Sockets

ams (formerly CMOSIS) Continued

Image Sensor Socket Footprints

Fig. 9
Thru-Hole: 10-26-28-281-400T4-R27-L14
Surface Mount: 10-26-28-281-414T4-R27-L14
Rollerball®: 10-26-28-281-RB501T4-R27-L14

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

Fig. 11
Thru-Hole: 694-150-TH-491-R27-L14 -1
Surface Mount: 694-150-SM-500-R27-L14 -1
Rollerball®: 694-150-SM-RB593-R27-L14 -1

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

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"ANDON PROPRIETARY INFORMATION"
## Terminals

**ams (formerly CMOSIS) Continued**

**Socket Terminal Details**

Cross Section View Shown Units: in [mm]

### Thru Hole Option

<table>
<thead>
<tr>
<th>Terminals</th>
<th>Accepts Pin Diameter</th>
<th>Insertion Force</th>
<th>Withdrawal Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>01M</td>
<td>Ø.018 [Ø0.46]</td>
<td>1.60 oz Max</td>
<td>0.50 oz Min</td>
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<tr>
<td>321</td>
<td>Ø.018 [Ø0.46]</td>
<td>1.60 oz Max</td>
<td>0.50 oz Min</td>
</tr>
<tr>
<td>400T4</td>
<td>Ø.012 [Ø0.30]</td>
<td>1.05 oz Max</td>
<td>0.32 oz Min</td>
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<tr>
<td>437T</td>
<td>Ø.010 [Ø0.25]</td>
<td>1.00 oz Max</td>
<td>0.30 oz Min</td>
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<tr>
<td>-491</td>
<td>Ø.018 [Ø0.46]</td>
<td>1.24 oz Max</td>
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### Surface Mount Option

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<th>Insertion Force</th>
<th>Withdrawal Force</th>
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<td>1.60 oz Max</td>
<td>0.50 oz Min</td>
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<tr>
<td>329T</td>
<td>Ø.012 [Ø0.30]</td>
<td>1.05 oz Max</td>
<td>0.32 oz Min</td>
</tr>
<tr>
<td>414T4</td>
<td>Ø.010 [Ø0.25]</td>
<td>1.00 oz Max</td>
<td>0.30 oz Min</td>
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<tr>
<td>-500</td>
<td>Ø.018 [Ø0.46]</td>
<td>1.24 oz Max</td>
<td>0.50 oz Min</td>
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### Rollerball® Option

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<th>Insertion Force</th>
<th>Withdrawal Force</th>
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</thead>
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<td>1.60 oz Max</td>
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<tr>
<td>RB501T4</td>
<td>Ø.012 [Ø0.30]</td>
<td>1.05 oz Max</td>
<td>0.32 oz Min</td>
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<tr>
<td>-RB593</td>
<td>Ø.018 [Ø0.46]</td>
<td>1.24 oz Max</td>
<td>0.50 oz Min</td>
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</tbody>
</table>

### Technical Information

- **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

**Plating:** RoHS Compliant

**R27** TERMINAL: GOLD / CONTACT: GOLD

OTHER PLATINGS AVAILABLE

### Mouting Options

- **Surface Mounting**
- **Thru-Hole**
- **Rollerball® Pre-Solder Flow**
- **Ultra Low Profile Thru-Hole**
- **Rollerball® Post-Solder Flow**

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

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

Socket Insulator
SIP Carrier
Ultra Low Profile Terminals
PCB

Available with or without solder washer

During Soldering

After Soldering

SIP Carrier removed after soldering

Ultra Low Profile Terminals

RoHS Compliant

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