



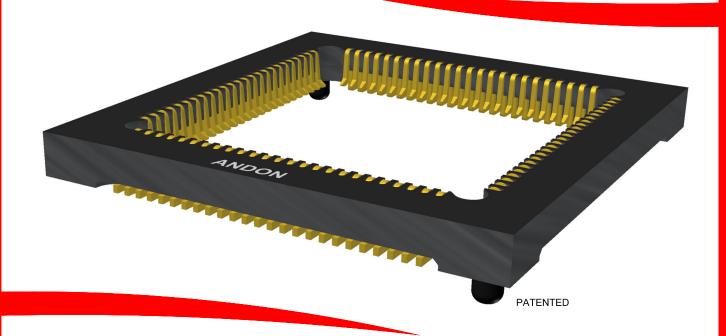






High-Reliability Image Sensor Sockets for Hamamatsu Photonics K.K.

PHOTON IS OUR BUSINESS



Featuring Andon's Unique Senstac Contact









	HAMAN	IATSU				
HAMAMATSU	Andon Part Number	Terminal Type		Pin Ø	Figure Number	Page Number
Model Number	Replace "XXX" with Terminal Type	Thru-Hole Surface Mount		[in]		
G8050 series	IS229-828-XXX-R27-L14	01S	938	.018	1	3
G8051 series	IS229-828-XXX-R27-L14	01S	938	.018	1	3
G8052 series	IS229-828-XXX-R27-L14	01S	938	.018	1	3
G8053 series	IS229-828-XXX-R27-L14	01S	93S	.018	1	3
G8160-265S	IS229-828-XXX-R27-L14	01S	93S	.018	1	3
G8161-512S	IS229-828-XXX-R27-L14	01S	93S 93S	.018	1	3
						_
G8162-256S	IS229-828-XXX-R27-L14	01S	93S	.018	1	3
G8163-512S	IS229-828-XXX-R27-L14	01S	93S	.018		_
G11475	IS229-820-XXX-R27-L14	018	938	.018	13	6
G11476	IS229-820-XXX-R27-L14	01S	938	.018	13	6
G11477	IS229-820-XXX-R27-L14	01S	938	.018	13	6
G11478	IS229-820-XXX-R27-L14	01S	93S	.018	13	6
G11508	IS229-820-XXX-R27-L14	01S	93S	.018	13	6
G14237-512WA	IS229-828-XXX-R27-L14	01S	93S	.018	1	3
S3901 series	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S3902 series	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S3903 series	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S3904 series	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S3921 series	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S3922 series	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S3923 series	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S3924 series	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S5930 series	IS229-624-XXX-R27-L14	01S	93S	.018	4	3
S5931 series	IS229-624-XXX-R27-L14	01S	938	.018	4	3
S7018-1010	575-13-83-048-XXX-R27-L14	01S	938	.018	2	3
S7019-1009	575-13-83-048-XXX-R27-L14	01S	938	.018	2	3
S7010-0906	IS229-424-XXX-R27-L14	01S	938	.018	3	3
S7010-0900 S7010-0907	IS229-424-XXX-R27-L14	01S	93S	.018	3	3
		01S	93S 93S	.018	3	3
S7010-1006	IS229-424-XXX-R27-L14				3	
S7010-1007	IS229-424-XXX-R27-L14	01S	93S	.018	_	3
S7010-0908	IS229-624-XXX-R27-L14	018	938	.018	4	3
S7010-1008	IS229-624-XXX-R27-L14	01S	938	.018	4	3
S7011 series	IS229-624-XXX-R27-L14	01S	93S	.018	4	3
S7015-0908	IS229-9124-XXX-R27-L14	01S	93S	.018	5	4
S7015-1008	IS229-9124-XXX-R27-L14	01S	93S	.018	5	4
S7017-1007	IS229-2024-XXX-R27-L14	01S	938	.018	6	4
S7017-1008	IS229-2024-XXX-R27-L14	01S	938	.018	6	4
S7030 series	IS229-924-XXX-R27-L14	01S	93S	.018	7	4
S7031 series	IS229-924-XXX-R27-L14	01S	93S	.018	7	4
S7033 series	IS229-924-XXX-R27-L14	018	93S	.018	7	4
S7034 series	IS229-924-XXX-R27-L14	01S	93S	.018	7	4
S7170-0909	IS229-924-XXX-R27-L14	01S	93S	.018	7	4
S7171-0909	IS229-924-XXX-R27-L14	01S	938	.018	7	4
S7847-1007	IS229-2024-XXX-R27-L14	01S	93S	.018	6	4
S7847-1008	IS229-2024-XXX-R27-L14	01S	938	.018	6	4
S7986-01	IS229-924-XXX-R27-L14	01S	93S	.018	7	4
S7987-01	IS229-924-XXX-R27-L14	01S	93S	.018	7	4
S8377 series	IS229-308-XXX-R27-L14	01S	93S	.018	9	4
S8378 series	IS229-308-XXX-R27-L14	018	938	.018	9	4
S8380 series	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S8381 series	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S9226 series	IS229-308-XXX-R27-L14	01S	93S	.018	9	4
S9227 series	IS229-308-XXX-R27-L14	01S	93S	.018	9	4

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RoHS Compliant Andon Proprietary Information





		IATSU			1	1
HAMAMATSU	Andon Part Number Terminal Type			Pin Ø	Figure	Page
Model Number	Replace "XXX" with Terminal	Thru-Hole Surface		[in]	Number	Number
Wodel Hamber	Туре	THIC TIOLO	Mount	[]	Number	Italiibo
S9970-0906	IS229-424-XXX-R27-L14	01S	93S	018	3	3
S9970-1006	IS229-424-XXX-R27-L14	01S	93S	.018	3	3
S9970-1007	IS229-424-XXX-R27-L14	01S	93S	.018	3	3
S9970-1008	IS229-624-XXX-R27-L14	01S	93S	.018	4	3
S9971-0906	IS229-624-XXX-R27-L14	01S	93S	.018	4	3
S9971-1006	IS229-624-XXX-R27-L14	01S	93S	.018	4	3
S9971-1007	IS229-624-XXX-R27-L14	01S	93S	.018	4	3
S9971-1008	IS229-924-XXX-R27-L14	01S	93S	.018	7	4
S9972-1007	IS229-424-XXX-R27-L14	01S	93S	.018	3	3
S9972-1008	IS229-624-XXX-R27-L14	01S	93S	.018	4	3
S9973-1007	IS229-624-XXX-R27-L14	01S	93S	.018	4	3
S9973-1008	IS229-924-XXX-R27-L14	01S	93S	.018	7	4
S10111-128Q	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S10111-256Q	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S10111-512Q	IS229-422-XXX-R27-L14	01S	938	.018	8	4
S10112-128Q	IS229-422-XXX-R27-L14	01S	938	.018	8	4
S10112-256Q	IS229-422-XXX-R27-L14	01S	938	.018	8	4
S10112-512Q	IS229-422-XXX-R27-L14	01S	938	.018	8	4
S10113-256Q	IS229-422-XXX-R27-L14	01S	938	.018	8	4
S10113-512Q	IS229-422-XXX-R27-L14	01S	938	.018	8	4
S10113-1024Q	IS229-422-XXX-R27-L14	01S	938	.018	8	4
S10114-256Q	IS229-422-XXX-R27-L14	01S	938	.018	8	4
S10114-230Q S10114-512Q	IS229-422-XXX-R27-L14	01S	938	.018	8	4
S10114-312Q S10114-1024Q	IS229-422-XXX-R27-L14	01S	93S	.018	8	4
S10114-1024Q S10121 series	IS229-422-XXX-R27-L14	01S	938	.018	8	4
S10121 series	IS229-422-XXX-R27-L14	01S	93S 93S	.018	8	4
S10122 series	IS229-422-XXX-R27-L14	01S	93S 93S	.018	8	4
					8	4
S10124 series	IS229-422-XXX-R27-L14	018	93S	.018	7	-
S10140 series	IS229-924-XXX-R27-L14	01S	93S	.018	-	4
S10141 series	IS229-924-XXX-R27-L14	01S	93S	.018	7	4
S10420-01 series	IS229-4124-XXX-R27-L14	01S	93S	.018	16	7
S11071 series	IS229-4124-XXX-R27-L14	01S	93S	.018	16	7
S11151-2048	IS229-424-XXX-R27-L14	01S	93S	.018	3	3
S11155-2048-02	IS229-4124-XXX-R27-L14	01S	938	.018	16	7
S11156-2048-02	IS229-4124-XXX-R27-L14	01S	93S	.018	16	7
S11490	IS232-354-XXX-R27-L14	01S	93S	.018	17	7
S11491	IS232-354-XXX-R27-L14	01S	93S	.018	17	7
S11511	IS229-528-XXX-R27-L14	01S	93S	.018	14	6
S11638	IS229-424-XXX-R27-L14	01S	93S	.018	3	3
S11639	IS229-424-XXX-R27-L14	01S	93S	.018	3	3
S11850-1106	IS229-528-XXX-R27-L14	01S	93S	.018	14	6
S11851-1106	IS229-528-XXX-R27-L14	01S	93S	.018	14	6
S12101	IS229-2040-XXX-R27-L14	01S	93S	.018	15	6
S12706	IS229-424-XXX-R27-L14	01S	93S	.018	3	3
S13101	687-88A-SM-G10-L14-1	-	-	-	11	5
S13102	687-48A-SM-G10-L14-1	-	-	-	12	5
S13240 series	IS229-924-XXX-R27-L14	01S	93S	.018	7	4
S13241 series	IS229-924-XXX-R27-L14	01S	93S	.018	7	4
S13255-2048-02	IS229-528-XXX-R27-L14	01S	93S	.018	14	6
S13256-2048-02	IS229-528-XXX-R27-L14	01S	93S	.018	14	6
S13496	IS229-424-XXX-R27-L14	01S	93S	.018	3	3
S14650 series	IS229-424-XXX-R27-L14	01S	93S	.018	3	3
S14651-2048	IS229-528-XXX-R27-L14	01S	938	.018	14	6
S14660 series	IS229-424-XXX-R27-L14	018	93S	.018	3	3
S14661-2048	IS229-528-XXX-R27-L14	01S	938	.018	14	6
S14739-20	620-16A-SM-G10-L14-1	-	-	.510	18	7
O 1 11 00 20	020 10/10 0 10-L 17-1	01S	938	.018	8	4

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Andon Proprietary Information





HAMAMATSU Continued

Image Sensor Socket Footprints

Units: in [mm]

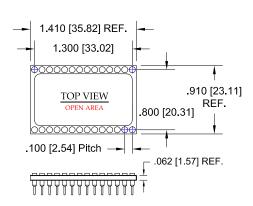


Fig. 1 28 Pins

Thru-Hole: IS229-828-01S-R27-L14 Surface Mount: IS229-828-93S-R27-L14

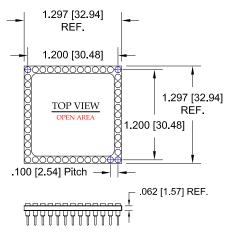


Fig. 2 48 Pins

Thru-Hole: 575-13-83-048-01S-R27-L14
Surface Mount: 575-13-83-048-93S-R27-L14

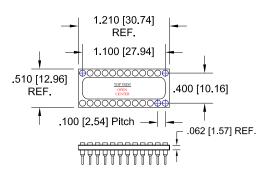


Fig. 3 24 Pins

Thru-Hole: IS229-424-01S-R27-L14 Surface Mount: IS229-424-93S-R27-L14

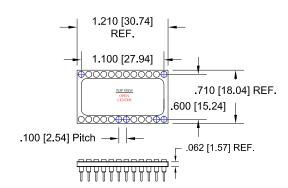


Fig. 4 24 Pins

Thru-Hole: IS229-624-01S-R27-L14
Surface Mount: IS229-624-93S-R27-L14

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HAMAMATSU Continued

Image Sensor Socket Footprints

Units: in [mm]

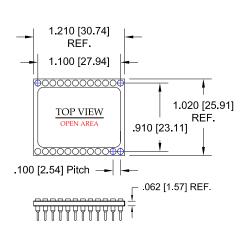


Fig. 5 24 Pins

Thru-Hole: IS229-9124-01S-R27-L14
Surface Mount: IS229-9124-93S-R27-L14

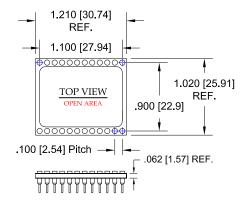


Fig. 7 24 Pins

Thru-Hole: IS229-924-01S-R27-L14 Surface Mount: IS229-924-93S-R27-L14

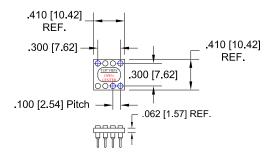


Fig. 9 8 Pins

Thru-Hole: IS229-308-01S-R27-L14 Surface Mount: IS229-308-93S-R27-L14

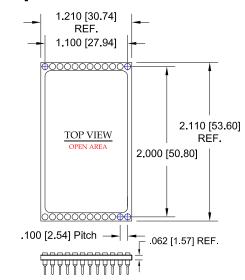


Fig. 6 24 Pins

Thru-Hole: IS229-2024-01S-R27-L14 Surface Mount: IS229-2024-93S-R27-L14

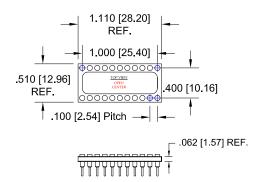


Fig. 8 22 Pins

Thru-Hole: IS229-422-01S-R27-L14 Surface Mount: IS229-422-93S-R27-L14

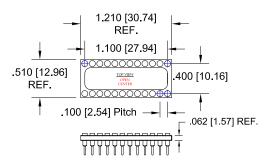


Fig. 10 24 Pins

Thru-Hole: IS229-424-01S-R27-L14 Surface Mount: IS229-424-93S-R27-L14

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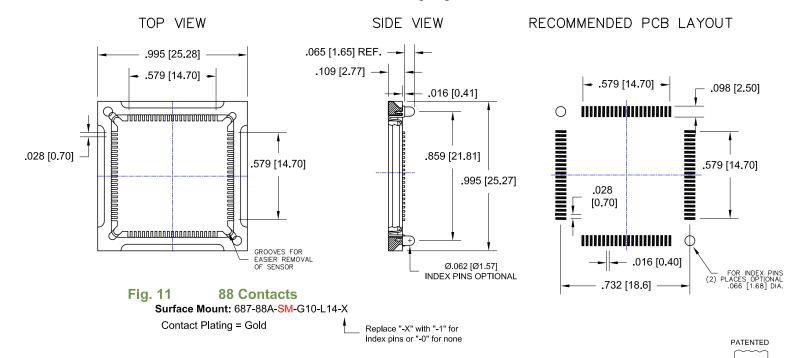




HAMAMATSU Continued

Image Sensor Socket Footprints

Units: in [mm]



con

TOP VIEW SIDE VIEW RECOMMENDED PCB LAYOUT

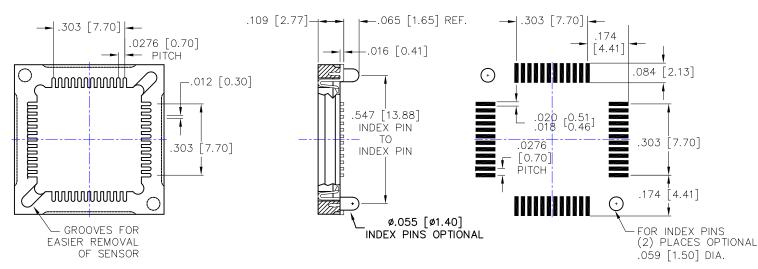


Fig. 12 48 Contacts
Surface Mount: 687-48A-SM-G10-L14-1
Contact Plating = Gold

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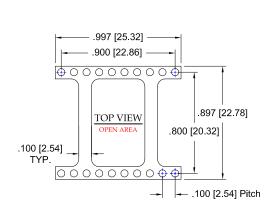




HAMAMATSU Continued

Image Sensor Socket Footprints

Units: in [mm]



1.100 [27.94]

.100 [2.54] TYP. —

.597 [15.16]
REF. TYP. TOP VIEW
OPEN AREA

.500 [12.70]

.062 [1.57] REF.

- 1.300 [33.02] REF. -

Fig. 13 20 Pins

Thru-Hole: IS229-820-01S-R27-L14-A Surface Mount: IS229-820-93S-R27-L14-A

Fig. 14 28 Pins

Thru-Hole: IS229-528-01S-R27-L14 Surface Mount: IS229-528-93S-R27-L14

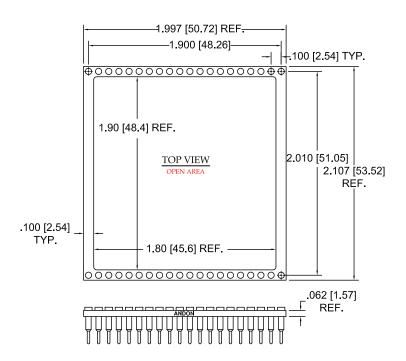


Fig. 15 40 Pins

Thru-Hole: IS229-2040-01S-R27-L14 Surface Mount: IS229-2040-93S-R27-L14

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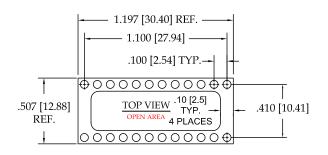


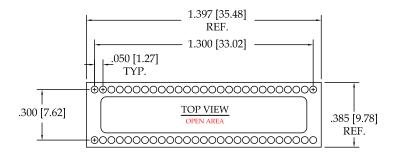


HAMAMATSU Continued

Image Sensor Socket Footprints

Units: in [mm]





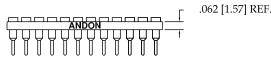
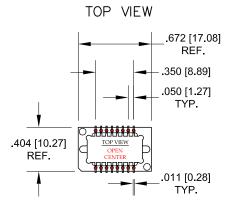


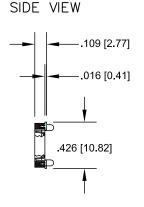
Fig. 17

Thru-Hole: IS229-4124-01S-R27-L14 Surface Mount: IS229-4124-93S-R27-L14 .062 [1.57] REF.

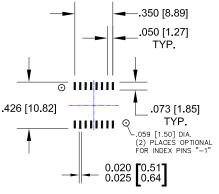
54 Pins

Thru-Hole: IS232-354-01S-R27-L14 Surface Mount: IS232-354-93S-R27-L14





RECOMMENDED PCB LAYOUT





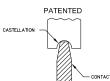


Fig. 18 16 Contacts Surface Mount: 620-16A-SM-G10-L14-X Contact Plating = Gold Replace "-X" with "-1" for index pins or "-0" for none

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Terminals

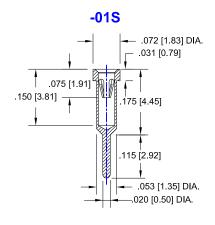


HAMAMATSU Continued

Image Sensor Terminal Options

Units: in [mm]

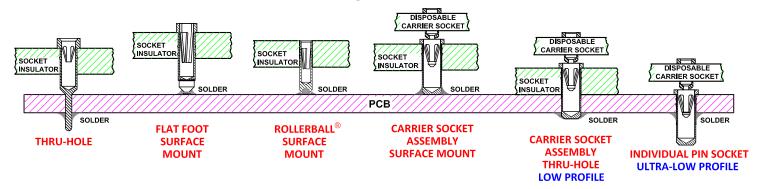
THRU HOLE OPTION



SURFACE MOUNT OPTION



Socket &Terminal Options



Material:

Insulator: Hi-Temp UL 94V-O Terminal: Brass, per ASTM-B16 Contact: BeCu, Per ASTM-B194

Technical Information Plating: RoHS COMPLIANT

R27 TERMINAL: GOLD / CONTACT: GOLD
R29 TERMINAL: MATTE TIN / CONTACT: GOLD
R32 TERMINAL: MATTE TIN / CONTACT: TIN

OTHER PLATINGS AVAILABLE

Terminal Acceptance and Forces									
Thru Hole Terminals				Surface Mount Terminals					
Thru Hole Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force	Surface Mount Terminal	Accepts Pin Diameter	Insertion Force	Withdrawal Force		
-01S	Ø.018 [Ø0.46]	9.00 oz Max.	2.00 oz Min	-93S	Ø.018 [Ø0.46]	9.00 oz Max.	2.00 oz Min		

DIGITAL PCB

SURFACE MOUNT

PCB

THRU-HOLE

PCB

ULTRA
LOW PROFILE
THRU-HOLE

THRU-HOLE

MOUNTING OPTIONS

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Carrier Assembly Configurations

For fast, accurate placement of SIP sockets and ultra-low profile terminals

Phase 1: Receive Carrier Assemblies designed to your pin layout.

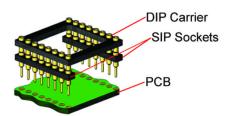


Phase 2: Place carrier assemblies onto PCB; run through your soldering process.



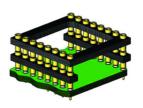
Phase 3: Remove carrier and plug in your device; discard carrier.

Before Soldering

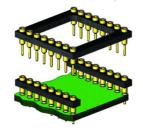


During Soldering

DIP

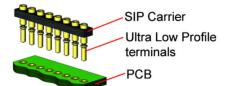


After Soldering



ULTRA-LOW PROFILE SIP

Before Soldering



During Soldering

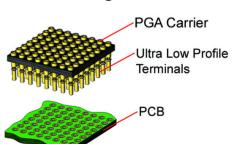


After Soldering

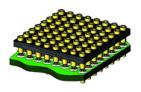


ULTRA-LOW PROFILE PGA

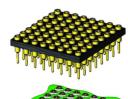
Before Soldering

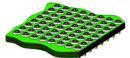


During Soldering



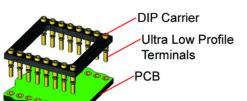
After Soldering

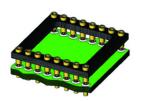




ULTRA LOW PROFILE DIP During Soldering

Before Soldering





After Soldering

