

# Customer Information Sheet

DRAWING No.: M90-3102R10SL-3S

SHEET 2 OF 2

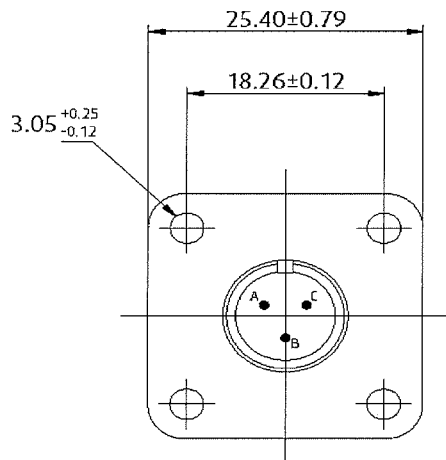
IF IN DOUBT - ASK

©

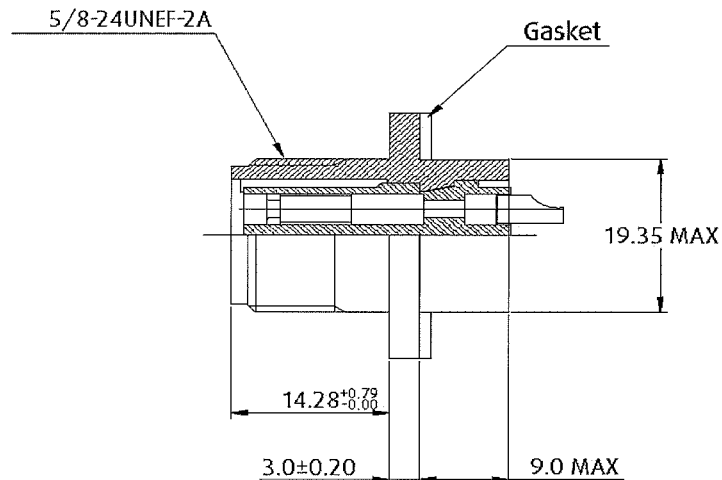
THIRD ANGLE PROJECTION

NOT TO SCALE

ALL DIMENSIONS IN mm



Front of Socket insert



**SPECIFICATIONS:**

**MATERIAL:**

SHELL = ALUMINIUM ALLOY

INSULATOR = POLYCHLOROPRENE

GROMMET = POLYCHLOROPRENE

CONTACT = COPPER ALLOY

**FINISH:**

SHELL = ZINC WITH BLACK CHROMATE COATING

CONTACT = SILVER

**ELECTRICAL:**

CURRENT RATING = 13 AMPS

VOLTAGE RATING = 500V AC, 700V DC

INSULATION RESISTANCE = 5,000 MΩ MIN

**ENVIRONMENTAL:**

TEMPERATURE RANGE = -55°C TO +125°C

VIBRATION = 10 - 500Hz (10G) PER MIL-STD-1344, Method 2005

SALT SPRAY = 48 HRS, 5% SALT SOLUTION, PER MIL-STD-1344 Method 1001

HUMIDITY = 95±3%, 71±2°C, 14 DAYS

**MECHANICAL:**

COUPLING : THREADED

POLARISATION : SINGLE KEY/ KEYWAY

CONTACT TYPE : SOLDER

CONTACT ARRANGEMENT : 3 CONTACTS

DURABILITY : 500 OPERATIONS

**NOTES:**

1. PRODUCT IS RoHS COMPLIANT
2. PRODUCT IS PACKED IN BAGS.
3. RECOMMENDED WIRE SIZE 16-22 AWG.

RA	3	15.01.09	10228
NAME	ISS.	DATE	C/NOTE
APPROVED			
CHECKED:			
DRAWN:		M.G.PLESTED	
CUSTOMER REF:			
ASSEMBLY DRG:			

## HARWIN

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**TOLERANCES**

X. = ±1mm

X.X = ±0.25mm

X.XX = ±0.10mm

X.XXX = ±0.01mm

ANGLES = ±5°

UNLESS STATED

**MATERIAL:**

SEE ABOVE

**FINISH:**

SEE ABOVE

**S/AREA:**

**TITLE:**

PANEL MOUNT -  
3 SOCKET CONTACTS

**DRAWING NUMBER:**

**M90-3102R10SL-3S**

**SHT**

2

**OF**

2

**HARWIN USA**

TEL: 603 893 5376

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# Customer Information Sheet

DRAWING No.: M90-3102R10SL-4S

SHEET 2 OF 2

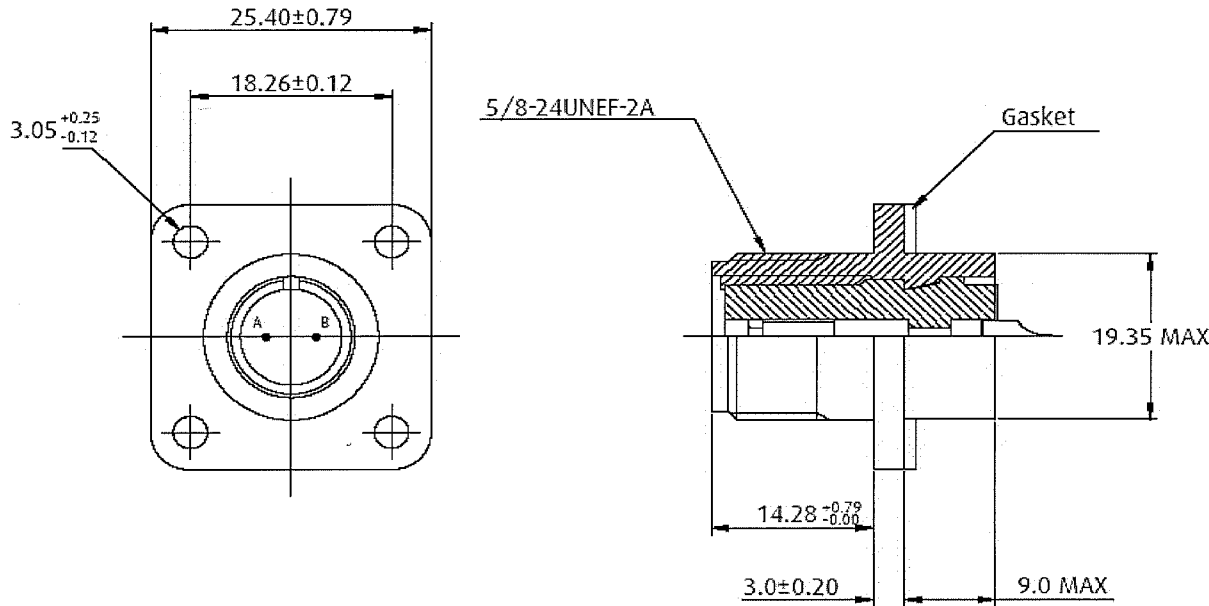
IF IN DOUBT - ASK

©

THIRD ANGLE PROJECTION

NOT TO SCALE

ALL DIMENSIONS IN mm



**NOTES:**

1. PRODUCT IS RoHS COMPLIANT
2. PRODUCT IS PACKED IN BAGS
3. RECOMMENDED WIRE SIZE 16-22 AWG.

**SPECIFICATIONS:**

**MATERIAL:**

SHELL = ALUMINIUM ALLOY  
 INSULATOR = POLYCHLOROPRENE  
 GROMMET = POLYCHLOROPRENE  
 CONTACT = COPPER ALLOY

**FINISH:**

SHELL = ZINC WITH BLACK CHROMATE COATING  
 CONTACT = SILVER

**ELECTRICAL:**

CURRENT RATING = 13 AMPS  
 VOLTAGE RATING = 500V AC, 700V DC  
 INSULATION RESISTANCE = 5,000 MΩ MIN

**ENVIRONMENTAL:**

TEMPERATURE RANGE = -55°C TO +125°C  
 VIBRATION = 10 - 500Hz (10G) PER MIL-STD-1344, Method 2005  
 SALT SPRAY = 48 HRS, 5% SALT SOLUTION, PER MIL-STD-1344  
 Method 1001

HUMIDITY = 95±3%, 71±2°C, 14 DAYS

**MECHANICAL:**

COUPLING : THREADED  
 POLARISATION : SINGLE KEY/ KEYWAY  
 CONTACT TYPE : SOLDER  
 CONTACT ARRANGEMENT : 2 CONTACTS  
 DURABILITY : 500 OPERATIONS

RA	3	15.01.09	10228
NAME	ISS.	DATE	C/NOTE
APPROVED	<i>[Signature]</i>		
CHECKED:	<i>[Signature]</i>		
DRAWN:	M.G.PLESTED		
CUSTOMER REF:			
ASSEMBLY DRG:			

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**TOLERANCES**  
 X. = ±1mm  
 X.X = ±0.25mm  
 X.XX = ±0.10mm  
 X.XXX = ±0.01mm  
**ANGLES = ±5°**  
**UNLESS STATED**

**MATERIAL:**  
 SEE ABOVE  
**FINISH:**  
 SEE ABOVE  
**S/AREA:**

**TITLE:**  
 PANEL MOUNT -  
 2 SOCKET CONTACTS  
**DRAWING NUMBER:**  
**M90-3102R10SL-4S**

**HARWIN USA**  
 TEL: 603 893 5376  
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 mis@harwin.com

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 FAX: +65 6 779 3868  
 mis@harwin.com.sg

**SHT**  
 2  
**OF**  
 2

# Customer Information Sheet

DRAWING No.: M90-3102R12S-3S

SHEET 1 OF 2

IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

**SPECIFICATIONS:**

**MATERIAL:**

SHELL: ALUMINIUM ALLOY  
 INSULATOR: NITRILE BUTADIENE RUBBER  
 GROMMET: NITRILE BUTADIENE RUBBER  
 CONTACT COPPER ALLOY

**FINISH:**

SHELL: ZINC PLATED WITH BLACK CHROMATE COATING  
 CONTACT: SILVER

**ELECTRICAL:**

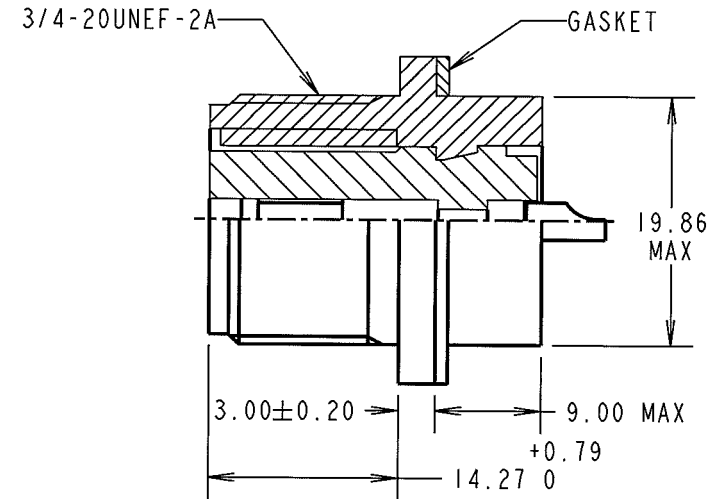
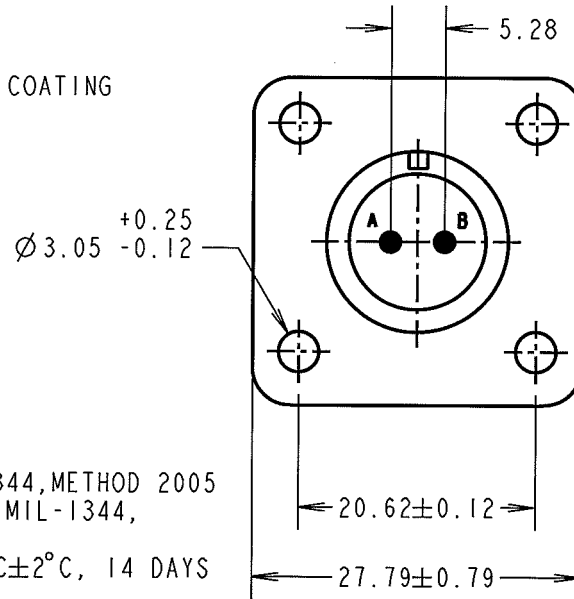
CURRENT RATING: 13 AMPS  
 VOLTAGE RATING: 500V AC, 700V DC  
 INSULATION RESISTANCE: 5,000 MΩ MIN

**MECHANICAL:**

COUPLING: THREADED  
 POLARISATION: SINGLE KEY/KEYWAY  
 CONTACT TYPE: SOLDER  
 CONTACT ARRANGEMENT: 2 CONTACTS  
 DURABILITY: 500 CYCLES

**ENVIRONMENTAL:**

TEMPERATURE RANGE: -55°C TO -125°C  
 VIBRATION: 10-500Hz (10G), PER MIL-STD-1344, METHOD 2005  
 SALT SPRAY: 48HRS. SALT SOLUTION 5%, PER MIL-1344, METHOD 1001  
 HUMIDITY: RELATIVE HUMIDITY 95±3%, 71°C±2°C, 14 DAYS



**NOTES:**

1. PRODUCT IS RoHS COMPLIANT
2. PRODUCT IS PACKED IN BAGS.
3. RECOMMENDED WIRE SIZE 16-22 AWG.

RA	2	16.01.09	10228
NAME	ISS.	DATE	C/NOTE
APPROVED: <i>R. Adde</i>			
CHECKED: <i>M. J. Adde</i>			
DRAWN: R. ADDE			
CUSTOMER REF.:			
ASSEMBLY DRG:			

**HARWIN**

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 X. = ±1mm  
 X.X = ±0.25mm  
 X.XX = ±0.10mm  
 X.XXX = ±0.01mm  
 ANGLES = ±5°  
 UNLESS STATED

**MATERIAL:**  
 SEE ABOVE  
**FINISH:**  
**S/AREA:** mm<sup>2</sup>

**TITLE:**  
 CABLE CONNECTOR-  
 2 PIN CONTACTS  
**DRAWING NUMBER:**  
 M90-3102R12S-3S  
 SHT 2 OF 2

# Customer Information Sheet

DRAWING No.: M90-3102R14S-2S

SHEET 2 OF 2

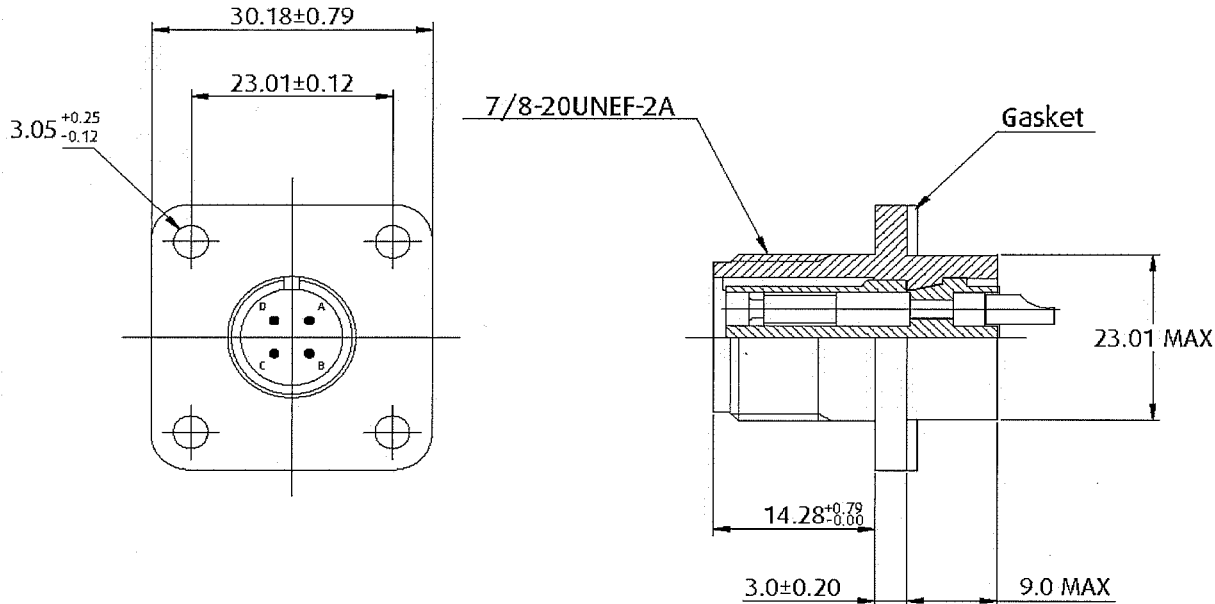
IF IN DOUBT - ASK

©

THIRD ANGLE PROJECTION

NOT TO SCALE

ALL DIMENSIONS IN mm



**SPECIFICATIONS:**

**MATERIAL:**

SHELL = ALUMINIUM ALLOY

INSULATOR = POLYCHLOROPRENE

GROMMET = POLYCHLOROPRENE

CONTACT = COPPER ALLOY

**FINISH:**

SHELL = ZINC WITH BLACK CHROMATE COATING

CONTACT = SILVER

**ELECTRICAL:**

CURRENT RATING = 13 AMPS

VOLTAGE RATING = 200V AC, 250V DC

INSULATION RESISTANCE = 5,000 MΩ MIN

**ENVIRONMENTAL:**

TEMPERATURE RANGE = -55°C TO +125°C

VIBRATION = 10 - 500Hz (10G) PER MIL-STD-1344, Method 2005

SALT SPRAY = 48 HRS, 5% SALT SOLUTION, PER MIL-STD-1344 Method 1001

HUMIDITY = 95±3%, 71±2°C, 14 DAYS

**MECHANICAL:**

COUPLING : THREADED

POLARISATION : SINGLE KEY/ KEYWAY

CONTACT TYPE : SOLDER

CONTACT ARRANGEMENT : 4 CONTACTS

DURABILITY : 500 OPERATIONS

**NOTES:**

1. PRODUCT IS RoHS COMPLIANT
2. PRODUCT IS PACKED IN BAGS
3. RECOMMENDED WIRE SIZE 16-22 AWG.

RA	4	15.01.09	10228
NAME	ISS.	DATE	C/NOTE
APPROVED			
CHECKED:			
DRAWN:		M.G.PLESTED	
CUSTOMER REF:			
ASSEMBLY DRG:			

## HARWIN

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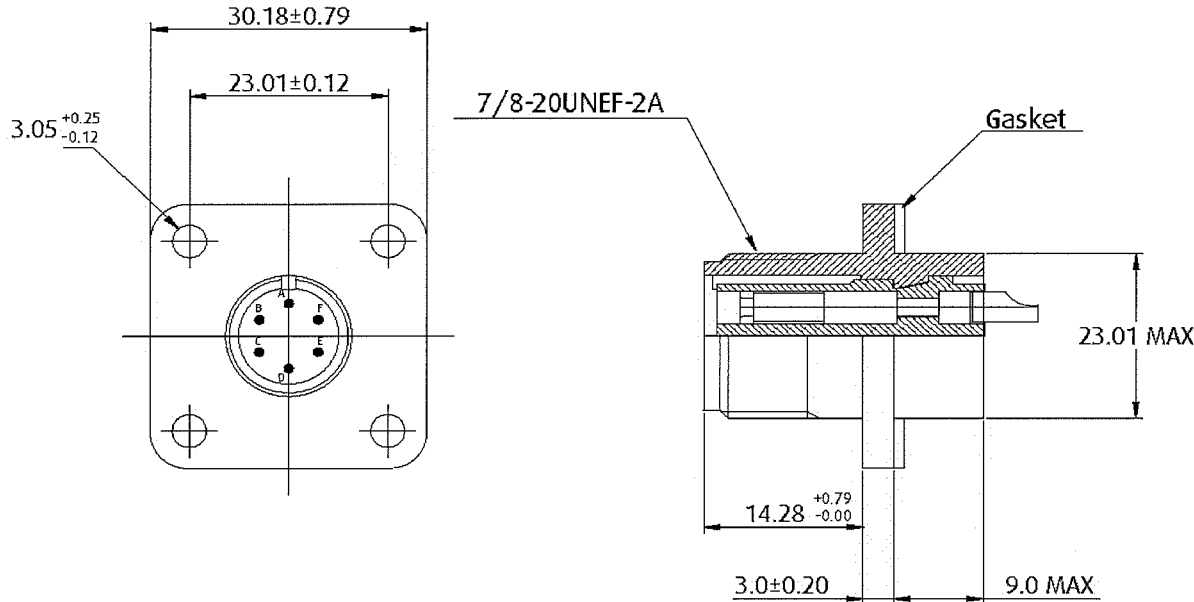
**TOLERANCES**  
X. = ±1mm  
X.X = ±0.25mm  
X.XX = ±0.10mm  
X.XXX = ±0.01mm  
ANGLES = ±5°  
UNLESS STATED

**MATERIAL:**  
SEE ABOVE  
**FINISH:**  
SEE ABOVE  
**S/AREA:**

**TITLE:**  
PANEL MOUNT -  
4 SOCKET CONTACTS  
**DRAWING NUMBER:**  
M90-3102R14S-2S  
**SHT**  
2  
**OF**  
2

# Customer Information Sheet

DRAWING No.: M90-3102R14S-6S SHEET 2 OF 2 IF IN DOUBT - ASK © THIRD ANGLE PROJECTION NOT TO SCALE ALL DIMENSIONS IN mm



**NOTES:**

1. PRODUCT IS RoHS COMPLIANT
2. PRODUCT IS PACKED IN BAGS
3. RECOMMENDED WIRE SIZE 16-22 AWG.

**SPECIFICATIONS:**

**MATERIAL:**

SHELL = ALUMINIUM ALLOY  
 INSULATOR = POLYCHLOROPRENE  
 GROMMET = POLYCHLOROPRENE  
 CONTACT = COPPER ALLOY

**FINISH:**

SHELL = ZINC WITH BLACK CHROMATE COATING  
 CONTACT = SILVER

**ELECTRICAL:**

CURRENT RATING = 13 AMPS  
 VOLTAGE RATING = 200V AC, 250V DC  
 INSULATION RESISTANCE = 5,000 MΩ MIN

**ENVIRONMENTAL:**

TEMPERATURE RANGE = -55°C TO +125°C  
 VIBRATION = 10 - 500Hz (10G) PER MIL-STD-1344, Method 2005  
 SALT SPRAY = 48 HRS, 5% SALT SOLUTION, PER MIL-STD-1344 Method 1001

HUMIDITY = 95±3%, 71±2°C, 14 DAYS

**MECHANICAL:**

COUPLING : THREADED  
 POLARISATION : SINGLE KEY/ KEYWAY  
 CONTACT TYPE : SOLDER  
 CONTACT ARRANGEMENT : 6 CONTACTS  
 DURABILITY : 500 OPERATIONS

RA	4	15.01.09	10228
NAME	ISS.	DATE	C/NOTE
APPROVED <i>[Signature]</i>			
CHECKED: <i>[Signature]</i>			
DRAWN: M.G.PLESTED			
CUSTOMER REF:			
ASSEMBLY DRG:			

# HARWIN

HARWIN USA  
 TEL: 603 893 5376  
 FAX: 603 893 5396  
 mis@harwin.com

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 X.X = ±0.25mm  
 X.XX = ±0.10mm  
 X.XXX = ±0.01mm  
**ANGLES = ±5°**  
**UNLESS STATED**

**MATERIAL:**  
 SEE ABOVE  
**FINISH:**  
 SEE ABOVE  
**S/AREA:**

**TITLE:**  
 PANEL MOUNT -  
 6 SOCKET CONTACTS  
**DRAWING NUMBER:**  
**M90-3102R14S-6S**

SHT  
 2  
 OF  
 2