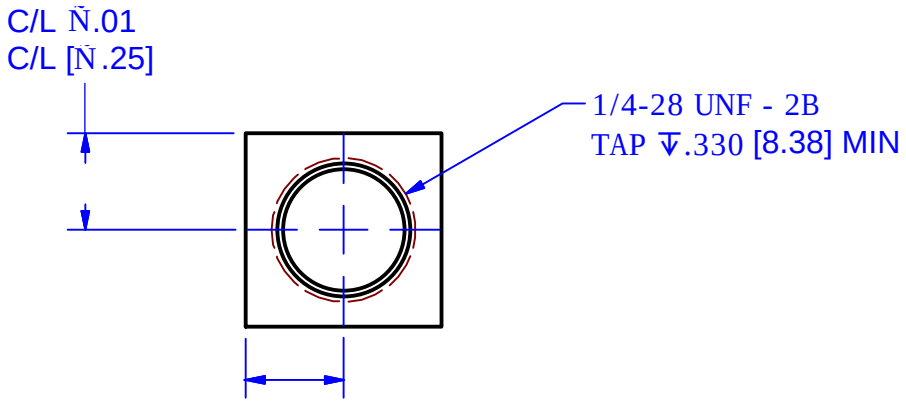
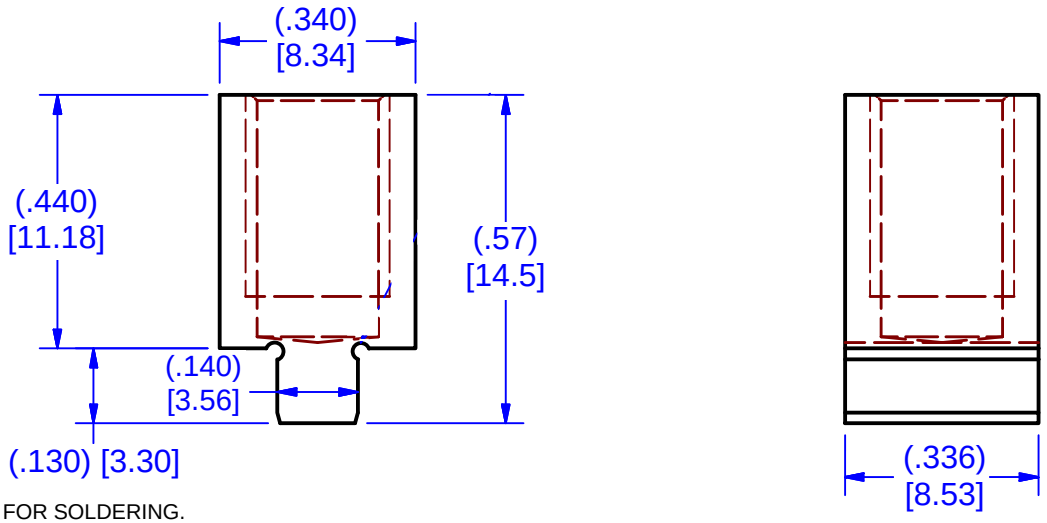


CUSTOMER PROVIDES SCREW (1/4-28 x 3/8 LNG), WASHER(S), AND RING LUG WITH 1/4" CLEARANCE HOLE

RECOMMENDED WASHER: SAE OR M6, MIN. THICKNESS .06" (1.5mm) AND 0.03" (0.75mm) MINIMUM THICK RING LUG TANG

TYPICAL LENGTH OF 3/8" LONG SCREW IS 0.375" +0/ -0.015" (9.53mm+0/ - 0.38mm)

*DUE TO THREAD LENGTH & PLATING VARIATION, PD MAY BE .2258-.2321. RUNNING TORQUE FOR SCREWS REFERENCE 1-5 In-Lb



NOTES:
1.FINISH: TIN PLATE FOR SOLDERING.
2.PART IS NOT UL/CSA LISTED/CERTIFED BUT IS CAPABLE OF PASSING UL486 SUBJECT TO TESTING AS MOUNTED IN PCB AND USING FOIL/PCB DESIGN, WIRE CLASS, SCREW TORQUE, AND MAXIMUM CURRENT, APPROPRIATELY.
3.WAVE SOLDERABLE (THT) OR SOLDER PASTE SOLDERABLE (SMT)
4.ACCEPTS COPPER OR ALUMINUM WIRE (SOLID OR STRANDED)
5.FOR .06 PCB MIN. BOARD THICKNESS.
6.USE ROUTED SLOT IN PCB FOR .140 FOOT, ALL FINAL PCB SPECS BASED ON BUYER TESTING AND APPROVAL
7.SEE ADDITIONAL SPEC SHEETS FOR PAD DESIGN
8.FOR USE WITH CUSTOMER SUPPLIED RING LUGS (1/4"/6MM BOLT SIZE)
9.WHEN USING A RING LUG AND BOLT, IT'S RECOMMENDED THAT THE HEAD OF THE BOLT HANGS OFF THE EDGE OF THE BOARD. LITTLE OR NO CLEARANCE BETWEEN THE HEAD OF THE BOLT AND THE BOARD CAN RESULT IN MECHANICAL AND ELECTRICAL FOULING

NOT FOR USE WHERE FAILURE CREATES A HAZARD TO HUMAN HEALTH OR SAFETY. ALL PRODUCTS ARE SUBJECT TO THIS FULL DISCLAIMER: ihiconnectors.com/disclaimer.html
FOR FURTHER INFORMATION ON THE PROPER USE OF THIS PRODUCT IN SPECIFIC APPLICATIONS SEE ihiconnectors.com/GuideToFlexFlexibleFineStrandedWireCableMechanicalLugsFAQ.html

THIS DRAWING AND DESIGN ARE THE PROPERTY OF INTERNATIONAL HYDRAULICS, INC., CLEVELAND, OHIO, AND MAY NOT BE DUPLICATED, USED FOR THE BASIS OF DESIGN OR MANUFACTURE WITHOUT THE WRITTEN PERMISSION OF INTERNATIONAL HYDRAULICS, INC., CLEVELAND, OHIO.

UNLESS OTHERWISE SPECIFIED:
GENERAL TOLERANCES
±.015 (±0,39mm)

INTERNATIONAL HYDRAULICS, INC.

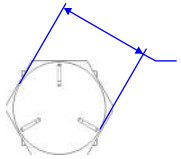
TITLE:
RING LUG MOUNT (NO SCREW)
SALES NO. B6A-NH-PCB-RS-NS, SOLDERABLE, POTTABLE

MATERIAL:	SIZE:	DRAWN BY:	DWG NO.:	REV:
6061-T6	A	DJH	B6A-PCB-NH-28	1

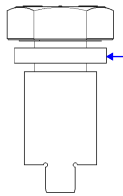
FINISH:	DATE:	
SEE NOTES	4/8/2015	THIS IS A CAD DRAWING, DO NOT MANUALLY REVISE

Last Saved:2015/04/20 12:14

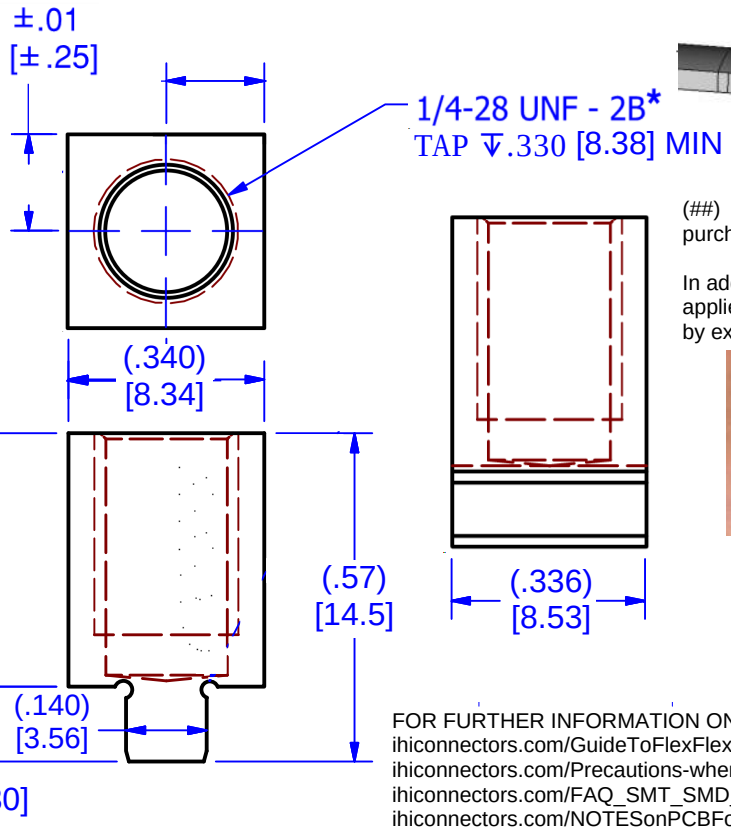
COPYRIGHT (PER LATEST REVISION DATE) OF INTERNATIONAL HYDRAULICS, INC. (IHI®). ALL RIGHTS RESERVED. THIS COMPLETE ENGINEERING DRAWING, SCHEMATICS, AND DESIGN ARE PROPRIETARY AND CONFIDENTIAL PROPERTY OF INTERNATIONAL HYDRAULICS, INC. DBA: IHI CONNECTORS® IN CLEVELAND, OHIO, AND MAY NOT BE DUPLICATED, USED FOR THE BASIS OF DESIGN OR MANUFACTURE WITHOUT PRIOR WRITTEN PERMISSION OF ITS OWNER. Contents contain a combination of registered trademark, copyright, or patent protections exclusively owned by IHI® which are not to be infringed upon. Not for use where failure creates a hazard to human health or safety. All products are subject to this full disclaimer: ihiconnectors.com/disclaimer.html

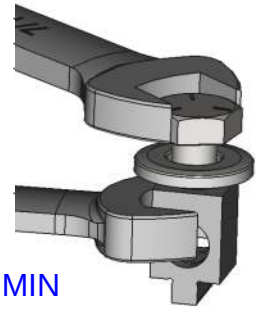


*DUE TO THREAD LENGTH & PLATING VARIATION, PD MAY BE .2258-.2321. RUNNING TORQUE FOR SCREWS REFERENCE 1-5 In-Lb



1/4-28 x 3/8 BOLT AND M6 WASHER
TYPICAL LENGTH OF 3/8" LONG
SCREW IS 0.375" +0/-0.015"
(9.53mm+0/-0.38")
MIN WASHER TICKNESS 0.06" (1.5mm)





Ring Lug Mount (RLM)
Screw Tightening Torques

All torques in inch-lbs. (Divide by 8.85 for N-m)

When Using	THT Mounts		SMT Mount	Lug body Wrench Size
-RLM	Min	Max		
B6A-NH-PCB	35	37-80**	##	11/32" (9mm)

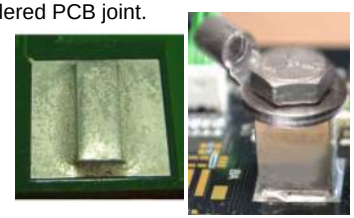
(**) Use of an open ended wrench on the lug to counter the applied torque is recommended in case the soldered mount to PCB is compromised by excessive torque applied through to the soldered PCB joint.

(##) All SMT mounts require that the torque applied should be established by purchaser using data on the strength of the SMT joint in the worst case.

In addition, use of an open ended wrench on the SMT mounted lug to counter the applied torque is recommended in case the soldered mount to PCB is compromised by excessive torque applied through to the soldered PCB joint.

FIG 1 NOTE 11

SMT MODE


THT MODE

CUSTOMER SUPPLIED RING LUG.
RECOMMENDED 0.03" (0.75mm)
MINIMUM THICK RING LUG TANG

FOR FURTHER INFORMATION ON THE PROPER USE OF THIS PRODUCT IN SPECIFIC APPLICATIONS SEE
ihiconnectors.com/GuideToFlexFlexibleFineStrandedWireCableMechanicalLugsFAQ.html
ihiconnectors.com/Precautions-when-using-SMT.pdf
ihiconnectors.com/FAQ_SMT_SMD_High_CurrentPCB_Terminal_LugsSolderCreep.htm
ihiconnectors.com/NOTESonPCBFootPrintLayouts(SMT-SMD-Mode).pdf
ihiconnectors.com/High_Amp_Wide_Trace_PCB_Wire_Connection.html
ihiconnectors.com/Technical-Data-Installation.htm

NOTES:
1.FINISH: TIN PLATE FOR SOLDERING.
2.PART IS NOT UL/CSA LISTED/CERTIFED BUT IS CAPABLE OF PASSING UL486 SUBJECT TO TESTING AS MOUNTED IN PCB.
3.WAVE SOLDERABLE (THT) OR SOLDER PASTE SOLDERABLE (SMT)
4.THT FOOT MOUNT OR SMT / SMD MODE IN 90 DEGREE ORIENTATION.
5.ACCEPTS COPPER OR ALUMINUM WIRE (SOLID OR STRANDED)
6.FOR .06 PCB MIN. BOARD THICKNESS.
7.USE ROUTED SLOT IN PCB FOR .140 FOOT, ALL FINAL PCB SPECS BASED ON BUYER TESTING AND APPROVAL
8.SEE ADDITIONAL SPEC SHEETS FOR PAD DESIGN
9.RING LUG MOUNT PARTS ARE SUPPLIED WITH HARDWARE KITTED; NOT ASSEMBLED.
10.FOR USE WITH CUSTOMER SUPPLIED RING LUGS (1/4"/6MM BOLT SIZE)
11.WHEN USING A RING LUG AND BOLT, IT'S RECOMMENDED THAT THE HEAD OF THE BOLT HANGS OFF THE EDGE OF THE BOARD. LITTLE OR NO CLEARANCE BETWEEN THE HEAD OF THE BOLT AND THE BOARD CAN RESULT IN MECHANICAL AND ELECTRICAL FOULING. (FIG 1)

THIS DRAWING AND DESIGN ARE THE PROPERTY OF INTERNATIONAL HYDRAULICS, INC., CLEVELAND, OHIO, AND MAY NOT BE DUPLICATED, USED FOR THE BASIS OF DESIGN OR MANUFACTURE WITHOUT THE WRITTEN PERMISSION OF INTERNATIONAL HYDRAULICS, INC., CLEVELAND, OHIO.

GENERAL TOLERANCES
±.015 (±0,038)

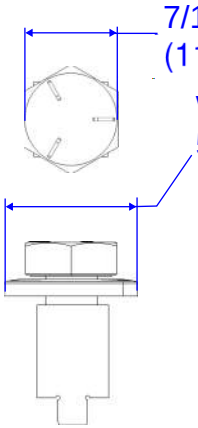
INTERNATIONAL HYDRAULICS, INC.

TITLE:
RING LUG MOUNT TERMINAL 65 AMP WITH 6 AWG CU WIRE

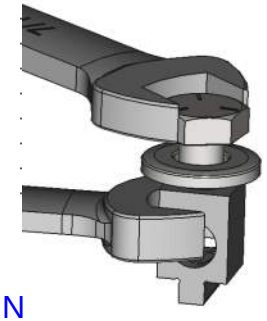
MATERIAL:	SIZE:	DRAWN BY:	DWG NO.:	REV:
6061-T6 AL.		TDS	B6A-NH-PCB-RLM-12W-KIT	

FINISH:	DATE:	
SEE NOTE	9/23/2022	THIS IS A CAD DRAWING, DO NOT MANUALLY REVISE

COPYRIGHT (PER LATEST REVISION DATE) OF INTERNATIONAL HYDRAULICS, INC. (IHI®). ALL RIGHTS RESERVED. THIS COMPLETE ENGINEERING DRAWING, SCHEMATICS, AND DESIGN ARE PROPRIETARY AND CONFIDENTIAL PROPERTY OF INTERNATIONAL HYDRAULICS, INC. DBA: IHI CONNECTORS® IN CLEVELAND, OHIO, AND MAY NOT BE DUPLICATED, USED FOR THE BASIS OF DESIGN OR MANUFACTURE WITHOUT PRIOR WRITTEN PERMISSION OF ITS OWNER. Contents contain a combination of registered trademark, copyright, or patent protections exclusively owned by IHI® which are not to be infringed upon. Not for use where failure creates a hazard to human health or safety. All products are subject to this full disclaimer: ihiconnectors.com/disclaimer.html



*DUE TO THREAD LENGTH & PLATING VARIATION, PD MAY BE .2258-.2321. RUNNING TORQUE FOR SCREWS REFRENCE 1-5 IN-LB



Ring Lug Mount (RLM)
Screw Tightening Torques

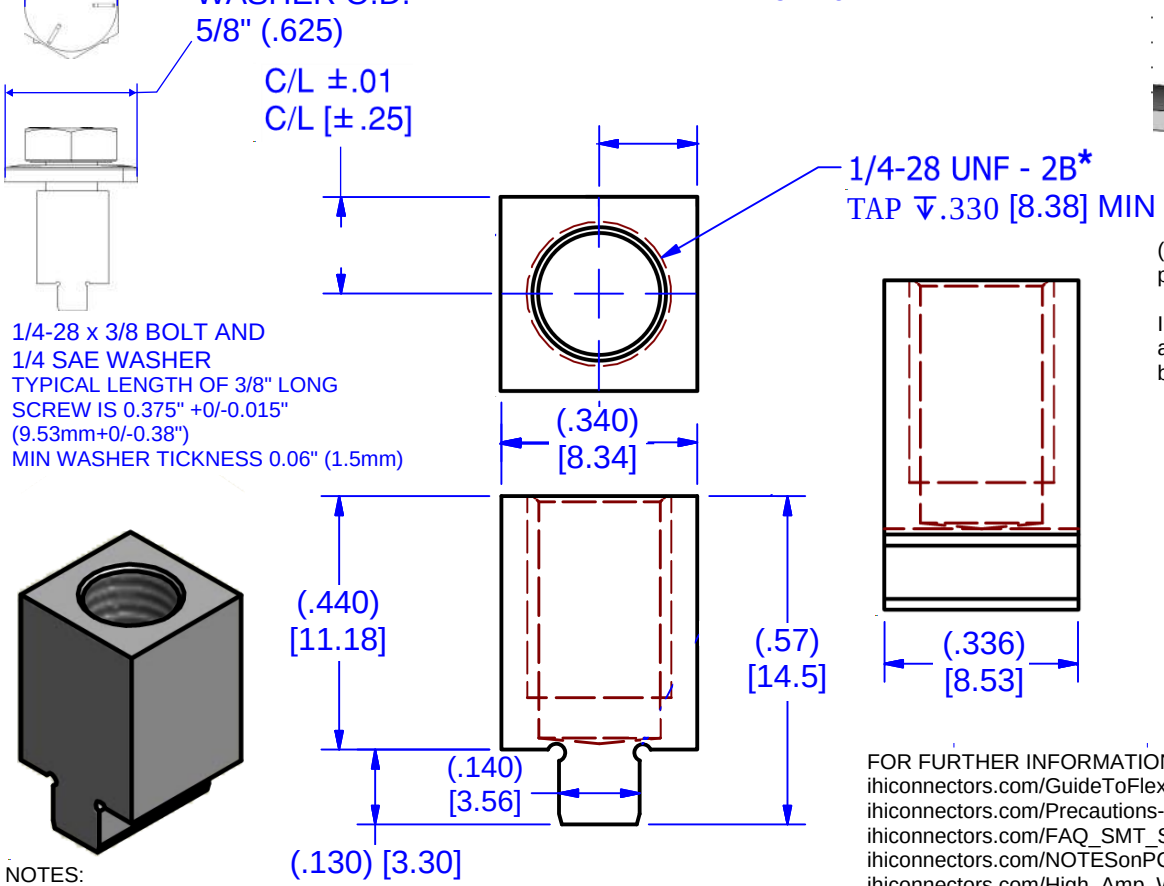
All torques in inch-lbs. (Divide by 8.85 for N-m)

When Using	THT Mounts		SMT Mount	Lug body Wrench Size
-RLM	Min	Max		
B6A-NH-PCB	35	37-80**	##	11/32" (9mm)

(**) Use of an open ended wrench on the lug to counter the applied torque is recommended in case the soldered mount to PCB is compromised by excessive torque applied through to the soldered PCB joint.

(##) All SMT mounts require that the torque applied should be established by purchaser using data on the strength of the SMT joint in the worst case.

In addition, use of an open ended wrench on the SMT mounted lug to counter the applied torque is recommended in case the soldered mount to PCB is compromised by excessive torque applied through to the soldered PCB joint.



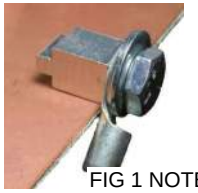


FIG 1 NOTE 11

SMT MODE

THT MODE

CUSTOMER SUPPLIED RING LUG.
RECOMMENDED 0.03" (0.75mm)
MINIMUM THICK RING LUG TANG

FOR FURTHER INFORMATION ON THE PROPER USE OF THIS PRODUCT IN SPECIFIC APPLICATIONS SEE
ihiconnectors.com/GuideToFlexFlexibleFineStrandedWireCableMechanicalLugsFAQ.html
ihiconnectors.com/Precautions-when-using-SMT.pdf
ihiconnectors.com/FAQ_SMT_SMD_High_CurrentPCB_Terminal_LugsSolderCreep.htm
ihiconnectors.com/NOTESonPCBFootPrintLayouts(SMT-SMD-Mode).pdf
ihiconnectors.com/High_Amp_Wide_Trace_PCB_Wire_Connection.html
ihiconnectors.com/Technical-Data-Installation.htm

NOTES:
1.FINISH: TIN PLATE FOR SOLDERING.
2.PART IS NOT UL/CSA LISTED/CERTIFED BUT IS CAPABLE OF PASSING UL486 SUBJECT TO TESTING AS MOUNTED IN PCB.
3.WAVE SOLDERABLE (THT) OR SOLDER PASTE SOLDERABLE (SMT)
4.THT FOOT MOUNT OR SMT / SMD MODE IN 90 DEGREE ORIENTATION.
5.ACCEPTS COPPER OR ALUMINUM WIRE (SOLID OR STRANDED)
6.FOR .06 PCB MIN. BOARD THICKNESS.
7.USE ROUTED SLOT IN PCB FOR .140 FOOT, ALL FINAL PCB SPECS BASED ON BUYER TESTING AND APPROVAL
8.SEE ADDITIONAL SPEC SHEETS FOR PAD DESIGN
9.RING LUG MOUNT PARTS ARE SUPPLIED WITH HARDWARE KITTED; NOT ASSEMBLED.
10.FOR USE WITH CUSTOMER SUPPLIED RING LUGS (1/4"/6MM BOLT SIZE)
11.WHEN USING A RING LUG AND BOLT, IT'S RECOMMENDED THAT THE HEAD OF THE BOLT HANGS OFF THE EDGE OF THE BOARD. LITTLE OR NO CLEARANCE BETWEEN THE HEAD OF THE BOLT AND THE BOARD CAN RESULT IN MECHANICAL AND ELECTRICAL FOULING. (FIG 1)

THIS DRAWING AND DESIGN ARE THE PROPERTY OF INTERNATIONAL HYDRAULICS, INC., CLEVELAND, OHIO, AND MAY NOT BE DUPLICATED, USED FOR THE BASIS OF DESIGN OR MANUFACTURE WITHOUT THE WRITTEN PERMISSION OF INTERNATIONAL HYDRAULICS, INC., CLEVELAND, OHIO.

GENERAL TOLERANCES
±.015 (±0,038)

INTERNATIONAL HYDRAULICS, INC.

TITLE:
RING LUG MOUNT TERMINAL 65 AMP WITH 6 AWG CU WIRE

MATERIAL:	SIZE:	DRAWN BY:	DWG NO.:	REV:
6061-T6 AL.		TDS	B6A-NH-PCB-RLM-KIT	

FINISH:	DATE:	
SEE NOTE	9/23/2022	THIS IS A CAD DRAWING, DO NOT MANUALLY REVISE