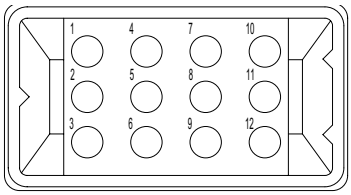
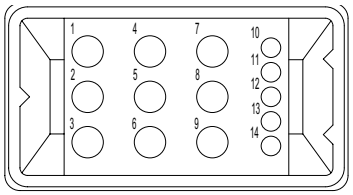
MMIP SERIES CONTACT VARIANTS

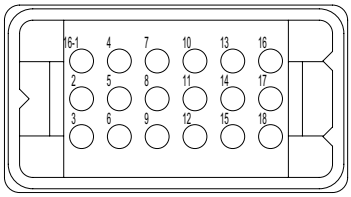
FACE VIEW OF MALE OR REAR VIEW OF FEMALE



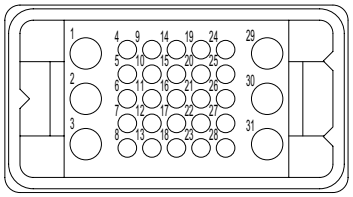
MMIP12W12 VARIANT
12 Size 12 Contacts



MMIP14W9 VARIANT
9 Size 12 and 5 Size 20 Contacts



MMIP18 VARIANT
18 Size 16 Contacts

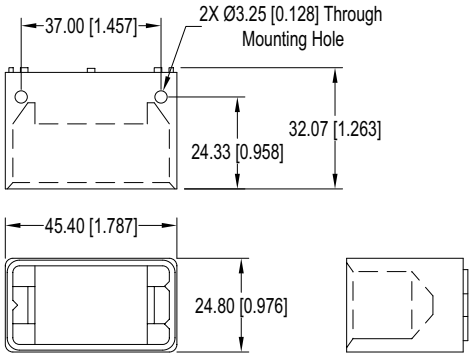


MMIP31W6 VARIANT
6 Size 12 and 25 Size 20 Contacts

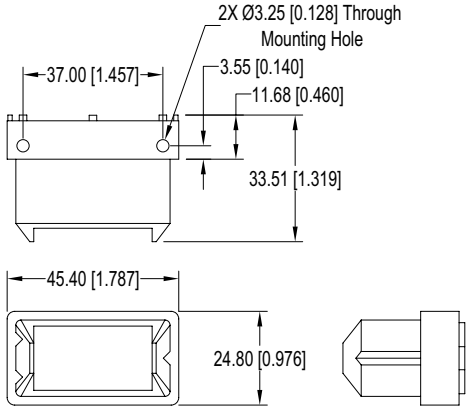
Refer to page 8 for Application Specific Arrangements.

MMIP CONNECTOR OUTLINE DIMENSIONS

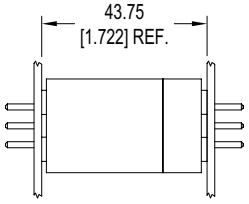
Male Connector Dimensions



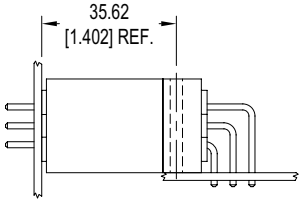
Female Connector Dimensions



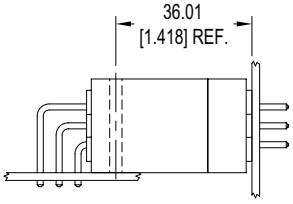
MMIP CONNECTOR MATING DIMENSIONS



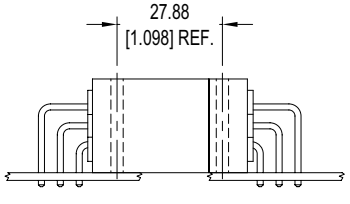
Straight Board Mount or Panel Mount Female to Straight Board Mount or Panel Mount Male.



Right Angle Board Mount Female to Straight Board Mount or Panel Mount Male.



Straight Board Mount or Panel Mount Female to Right Angle Board Mount Male.



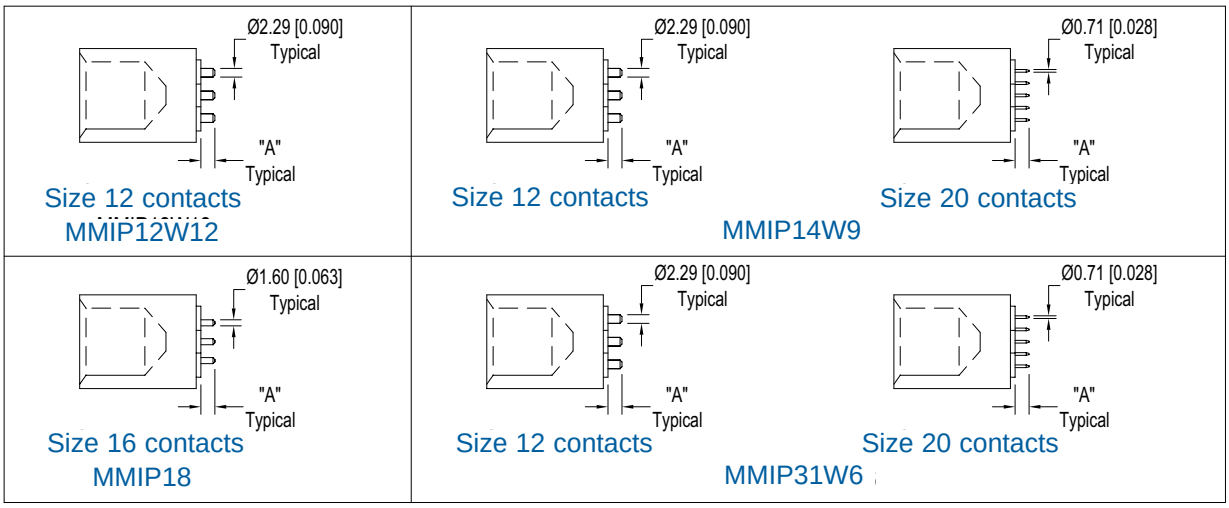
Right Angle Board Mount Female to Right Angle Board Mount Male.

**DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.**

CONNECTOR TERMINATION DIMENSIONS

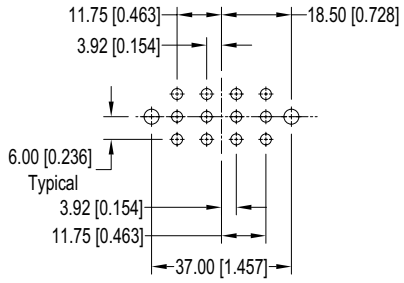
CODE	"A" LENGTH
3	3.71 [0.146]
32	9.58 [0.377]

MALE CONNECTOR SHOWN FOR REFERENCE ONLY

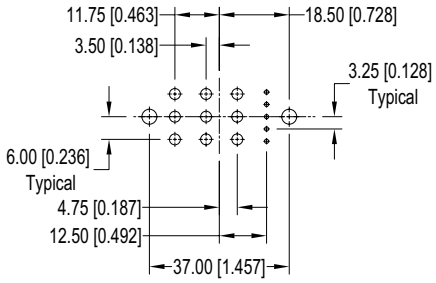


CONTACT HOLE PATTERNS

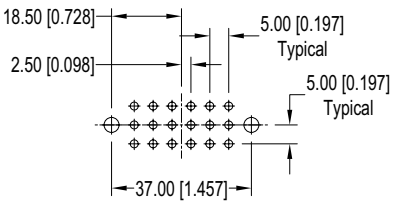
Hole pattern shown is for male connector; use mirror image for female connector.



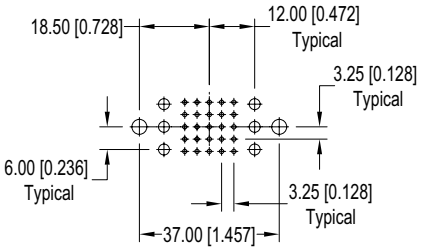
MMIP12W12



MMIP14W9



MMIP18



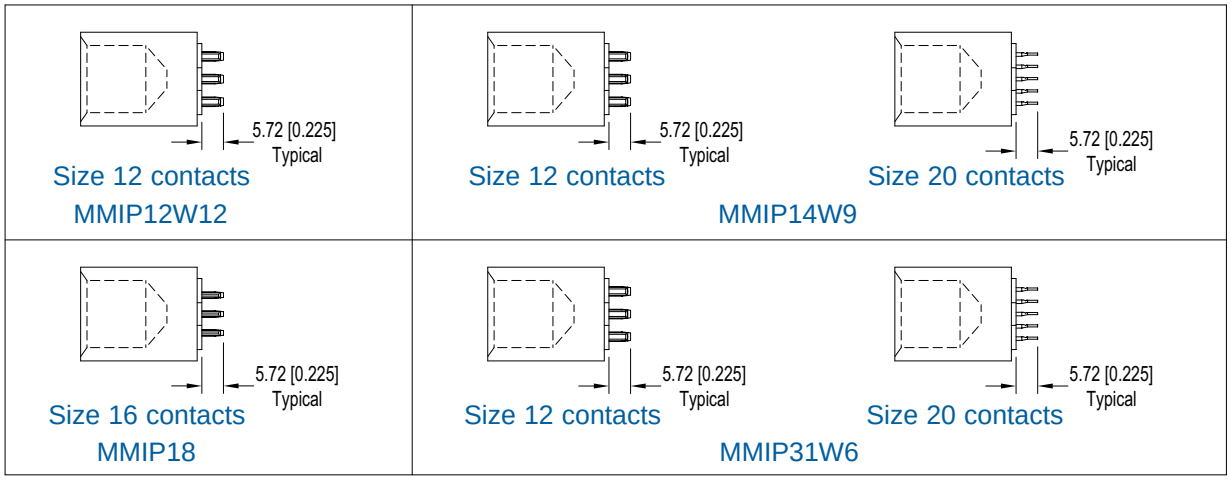
MMIP31W6

Suggest Ø1.14 [0.045] holes for size 20 contact holes.
Suggest Ø2.11 [0.083] holes for size 16 contact holes.
Suggest Ø2.90 [0.114] holes for size 12 contact holes.
Suggest Ø3.96±0.08 [0.156±0.003] holes for connector mounting holes.

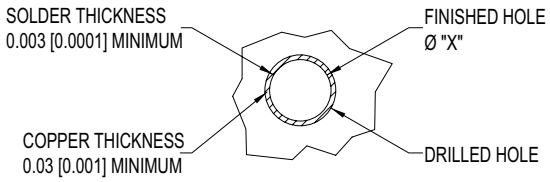
DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

CONNECTOR TERMINATION DIMENSIONS

MALE CONNECTOR SHOWN FOR REFERENCE ONLY



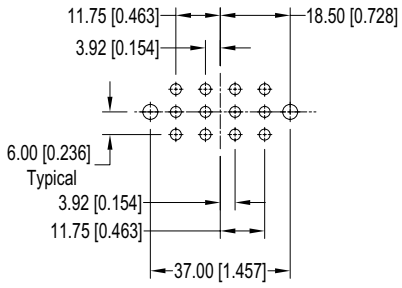
PRINTED BOARD
CONTACT HOLE REQUIREMENT



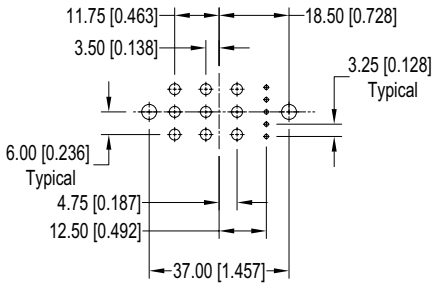
CONTACT SIZE	Ø "X"
12	2.39±0.05 [0.094±0.002]
16	1.600+0.090-0.060 [0.0630+0.0035-0.0024]
20	1.000+0.090-0.060 [0.0394+0.0035-0.0024]

CONTACT HOLE PATTERNS

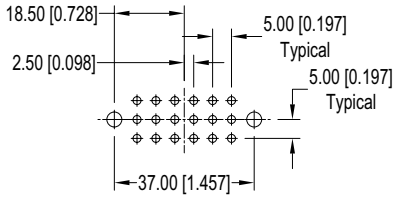
Hole pattern shown is for male connector; use mirror image for female connector.



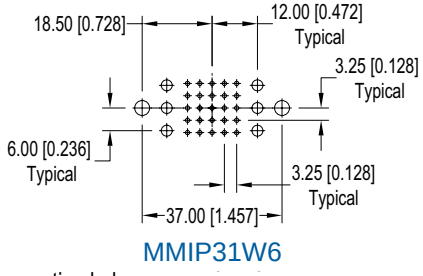
MMIP12W12



MMIP14W9



MMIP18



MMIP31W6

Suggest Ø3.96±0.08 [0.156±0.003] holes for connector mounting holes.

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

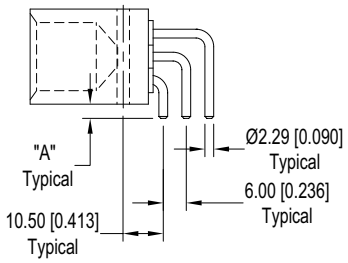
MMIP RIGHT ANGLE SOLDER BOARD MOUNT CONNECTORS AND HOLE PATTERNS

MINI-INFINITY HIGH POWER CONNECTOR SERIES

CONNECTOR TERMINATION DIMENSIONS

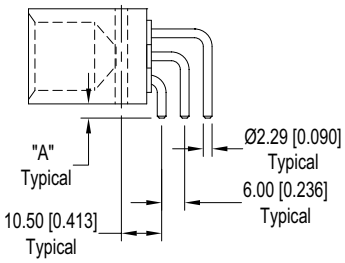
CODE	"A" LENGTH
4	3.71 [0.146]
42	9.58 [0.377]

MALE CONNECTOR SHOWN FOR REFERENCE ONLY

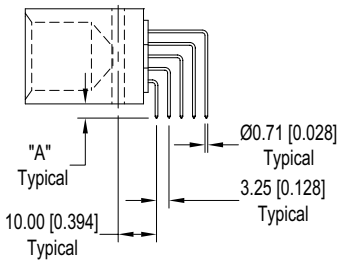


Size 12 contacts

MMIP12W12

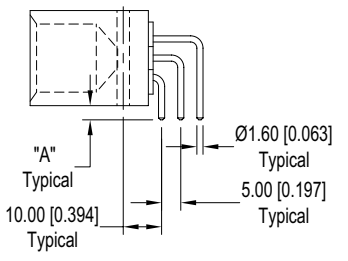


Size 12 contacts



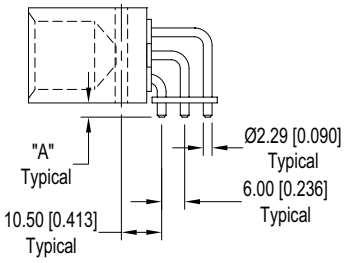
Size 20 contacts

MMIP14W9

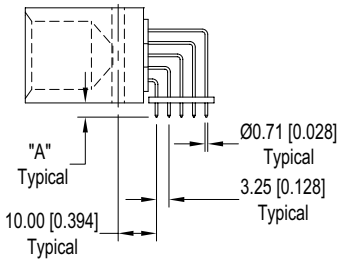


Size 16 contacts

MMIP18



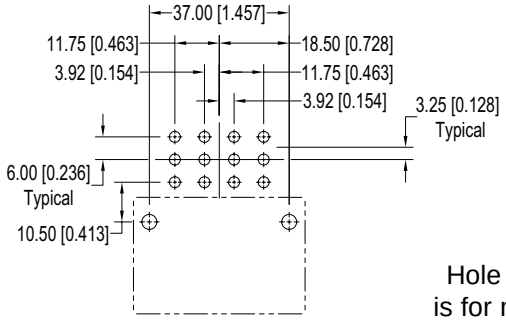
Size 12 contacts



Size 20 contacts

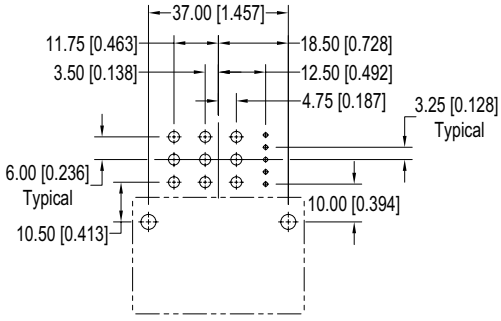
MMIP31W6

CONTACT HOLE PATTERNS

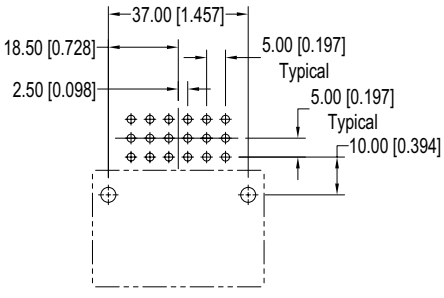


MMIP12W12

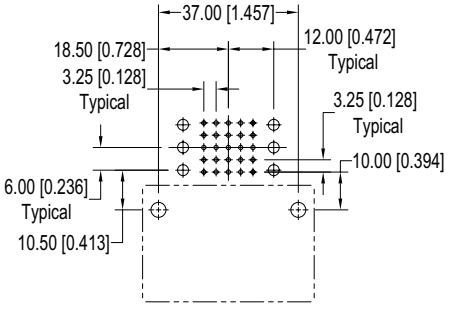
Hole pattern shown is for male connector; use mirror image for female connector.



MMIP14W9



MMIP18

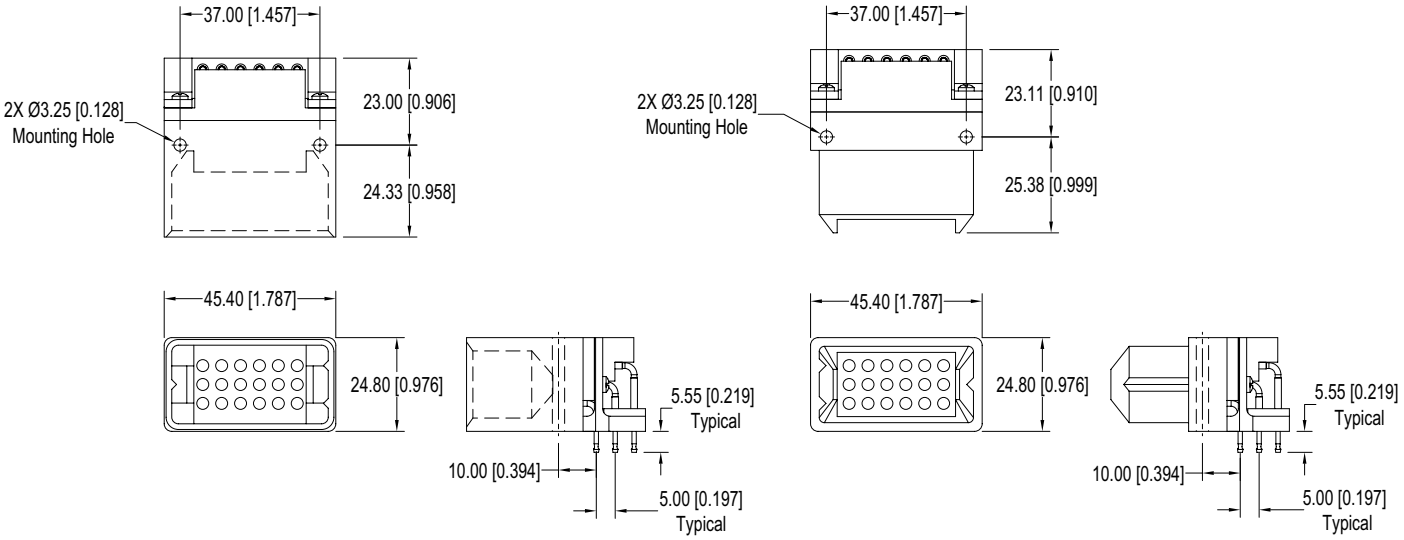


MMIP31W6

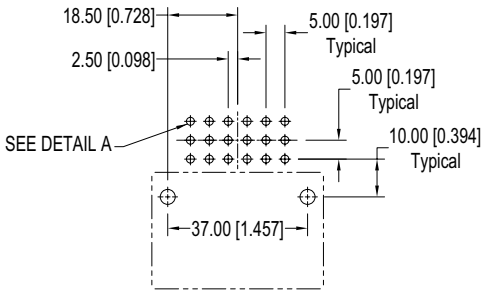
Suggest Ø1.14 [0.045] holes for size 20 contact holes.
Suggest Ø2.11 [0.083] holes for size 16 contact holes.
Suggest Ø2.90 [0.114] holes for size 12 contact holes.
Suggest Ø3.96±0.08 [0.156±0.003] holes for connector mounting holes.

**DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.**

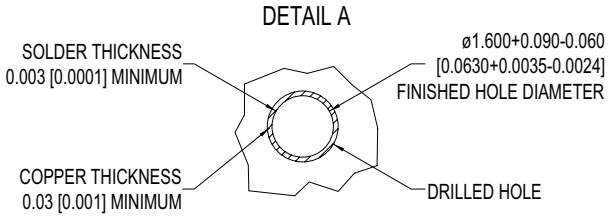
CONNECTOR TERMINATION DIMENSIONS, MALE AND FEMALE



CONTACT HOLE PATTERN, MALE AND FEMALE



MMIP18



Suggest ø3.96±0.08 [0.156±0.003] holes for connector mounting positions

DIMENSIONS ARE IN MILLIMETERS [INCHES].
ALL DIMENSIONS ARE SUBJECT TO CHANGE.

ORDERING INFORMATION – CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 8
Insert "0" When Step Is Not Used

STEP	1	2	3	4	5	6	7	—	8
	MMIP	18	F	93	0	0	A1		

STEP 1 - Basic Series
MMIP - Mini-Mini-Infinity

STEP 2 - Connector Variants

12W12- 12 size 12 contacts

14W9 - 9 size 12 and 5 size 20 contacts

18 - 18 size 16 contacts

31W6 - 6 size 12 and 25 size 20 contacts

STEP 3 - Connector Gender
M - Male

F - Female

STEP 4 - Type of Contact

0 – Order contacts separately for cable connectors for connection systems 2, 4 and 5.

3 – Solder, Straight Printed Board Mount with 3.70 [0.146] tail extension for connection systems 1 and 4.

32 -Solder, Straight, Printed Board Mount with 9.58 [0.377] tail extension for connection systems 1 and 4.

4 – Solder, Right Angle Printed Board Mount with 3.70 [0.146] tail extension for connection systems 1, 2, 3 and 7.

42 - Solder, Right Angle Printed Board Mount with 9.58 [0.377] tail extension for connection systems 1, 2, 3 and 7.

63 – Press–Fit, Compliant Termination Right Angle Printed Board Mount for use with board thicknesses of 2.29 to 4.45 [0.090 to 0.175]. With Cross Bar. Connection systems 1, 2, 3 and 7. Available for connector variant 18 only.

93 – Press–Fit, Compliant Termination Straight Printed Board Mount for use with board thicknesses of 2.29 to 4.45 [0.090 to 0.175]. Connection systems 1 and 4.

STEP 5 - Mounting Style

0 – None, mounting screws supplied with board mount connector.

N – Push-on fasteners supplied installed on board mount connector. Not recommended for code 63 and 93.

STEP 6 - Panel Mount

0 – None.

82 - Panel Mount 1.52 [0.060] panel thickness

83 - Panel Mount 2.28 [0.090] panel thickness

STEP 7 - Contact Plating

0 – Crimp contacts ordered separately

A1 – Gold flash over nickel on mating end and gold flash over nickel on termination end.

A2 – Gold flash over nickel on mating end and 5.00 microns [0.000200 inch] solder coat on termination end. Not available with contact types 63 and 93.

C1 – 0.80 microns [0.000030 inch] gold over nickel on mating end and 0.80 microns [0.000030 inch] gold over nickel on termination end.

C2 – 0.80 microns [0.000030 inch] gold over nickel on mating end and 5.00 microns [0.000200 inch] solder coat on termination end. Not available with contact types 63 and 93.

STEP 8 - Special Options
Consult Technical Sales
* Sequential Mating
* Recessed Female Contacts
* Customer Specified Contact Arrangement
* Hot Plug (see note below)
* Other Customer Requirements

Hot Plug Note: If UL approval is required for a Hot Plug connector, HP must be added to the part number. This is to be prior to any special plating or MOS requirements.

Example part numbers:
MIP28W12M300A1-HP
MIP30WA10M400A1-HP-50-294.0

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