



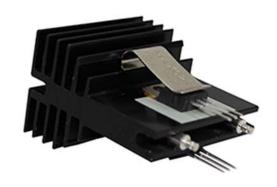
BOARD LEVEL COOLING - M45

Max Clip standards are designed to be a labor saving option for board level cooling. Max Clip standard work with multiple devices and can be customized for specific applications. See Max Clip Standard Part Numbering to build your semi-custom heat sink. Representative Image Only.

Benefits:

Labor Saving

- Cost Efficient Add a clip and thermal interface material
- Time Saver Easy assemble before wave soldering
- Customizable Solder pins, interface material, length & clip



ORDERING INFORMATION

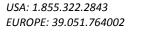
Part Number	Device Type
M45165B021000G	TO-247, TO-220, TO-126

HEAT SINK DETAILS

Property	Details
Material	Aluminum
Finish	Black Anodize
Device Attachment Options	Two Solderable Pins
Thermal Interface Material	-

Property	Details
Heat Sink Width (mm)	30 (1.18)
Heat Sink Length (mm)	41.91 (1.65)
Heat Sink Height (mm)	50.50 (1.988)
Heat Sink Mounting Direction	Vertical, Horizontal

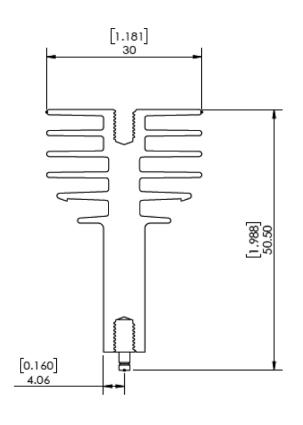
Clips are sold separately. For additional order information please see Max Clip Standard Part Numbering System. Aavid reserves the right to make changes to products or information contained herein without noticed. For additional information, please contact Aavid directly.

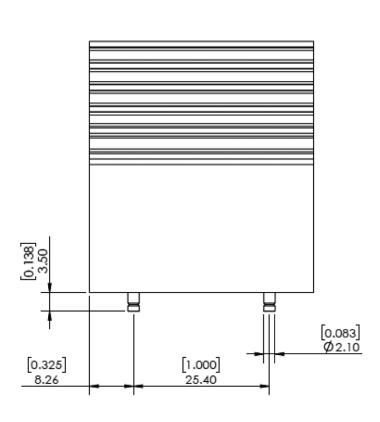




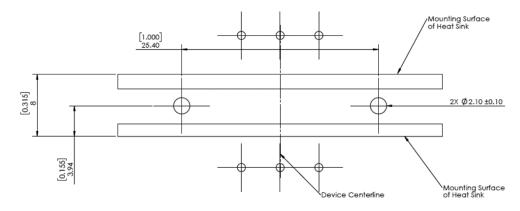


Drawing dimensions are shown in mm, (in)





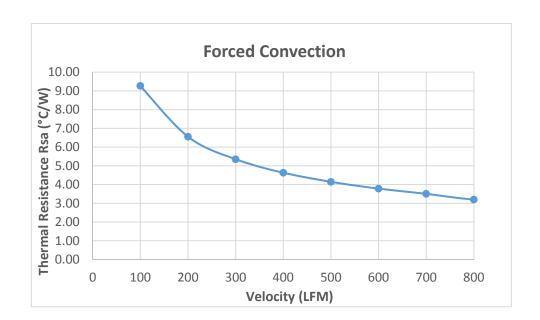
Board Mounting Layout:

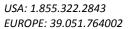


















BOARD LEVEL COOLING - M46

Max Clip standards are designed to be a labor saving option for board level cooling. Max Clip standard work with multiple devices and can be customized for specific applications. See Max Clip Standard Part Numbering to build your semi-custom heat sink. Representative Image Only.

Benefits:

Labor Saving

- Cost Efficient Add a clip and thermal interface material
- Time Saver Easy assemble before wave soldering
- Customizable solder pins, interface material, length & clip



ORDERING INFORMATION

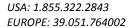
Part Number	Device Type
M46165B021000G	TO-247, TO-220, TO-126

HEAT SINK DETAILS

Property	Details
Material	Aluminum
Finish	Black Anodize
Device Attachment Options	Two Solderable Pins
Thermal Interface Material	-

Property	Details
Heat Sink Width (mm)	30 (1.18)
Heat Sink Length (mm)	41.91 (1.65)
Heat Sink Height (mm)	48.50 (1.909)
Heat Sink Mounting Direction	Vertical, Horizontal

Clips are sold separately. For additional order information please see Max Clip Standard Part Numbering System. Aavid reserves the right to make changes to products or information contained herein without noticed. For additional information, please contact Aavid directly.

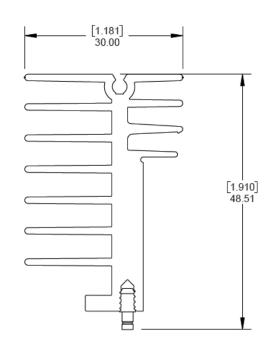


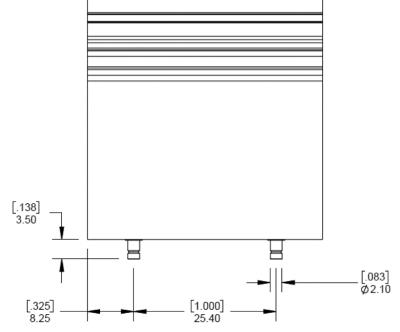




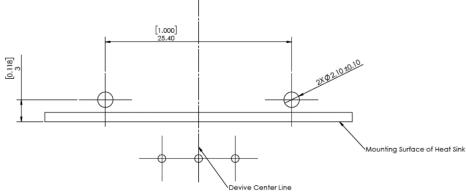


Drawing dimensions are shown in mm, (in)



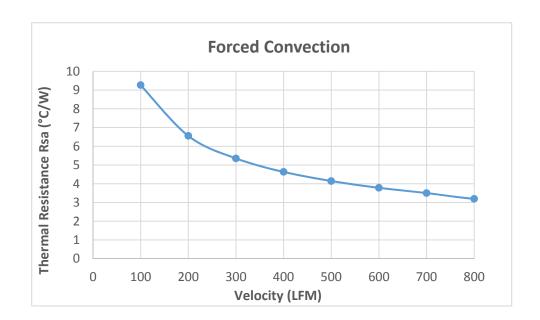


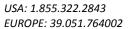
Board Mounting Layout:

















BOARD LEVEL COOLING - M47

Max Clip standards are designed to be a labor saving option for board level cooling. Max Clip standard work with multiple devices and can be customized for specific applications. See Max Clip Standard Part Numbering to build your semi-custom heat sink. Representative Image Only.

Benefits:

Labor Saving

- Cost Efficient Integrated clip designed into heat sink
- Time Saver Easy assemble before wave soldering
- Customizable Solder pins and length



ORDERING INFORMATION

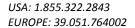
Part Number	Device Type
M47059B011000G	TO-247, TO-220, TO-126
M47079B011000G	TO-247, TO-220, TO-126
M47098B011000G	TO-247, TO-220, TO-126
M47118B021000G	TO-247, TO-220, TO-126

HEAT SINK DETAILS

Property	Details
Material	Aluminum
Finish	Black Anodize
Device Attachment Options	Solderable Pins
Thermal Interface Material	-

Property	Details
Heat Sink Width (mm)	19.4 (0.763)
Heat Sink Length (mm)	See Below Table
Heat Sink Height (mm)	31.5 (1.240)
Heat Sink Mounting Direction	Vertical, Horizontal

For additional order information please see Max Clip Standard Part Numbering System. Aavid reserves the right to make changes to products or information contained herein without noticed. For additional information, please contact Aavid directly.

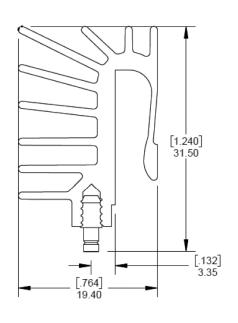


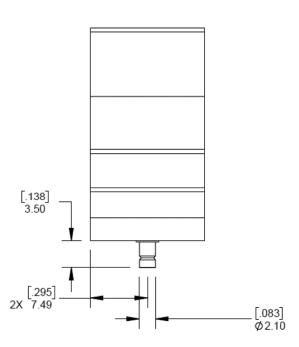


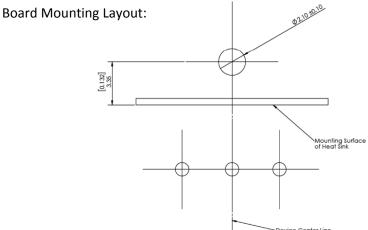


Drawing dimensions are shown in mm, (in)

Part Number	Length
M47059B011000G	14.99 (0.59)
M47079B011000G	20.07 (0.79)
M47098B011000G	24.89 (0.98)
M47118B021000G	30.15 (1.18)



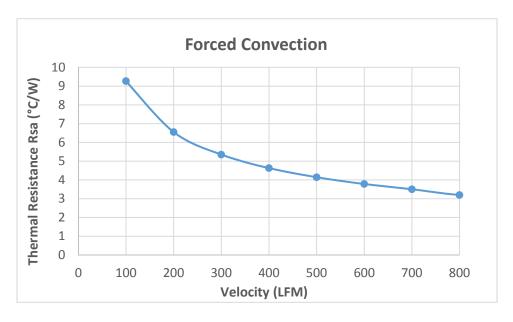




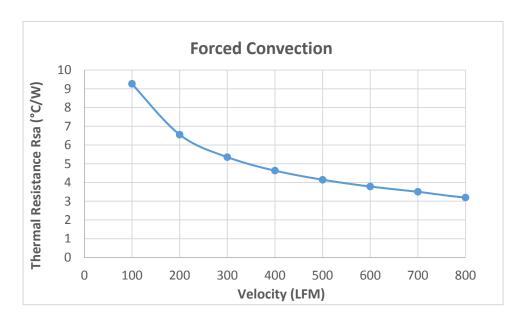




Part Number: M47059B011000G

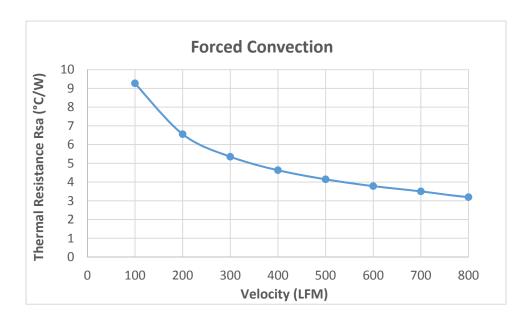


Part Number: M47079B011000G

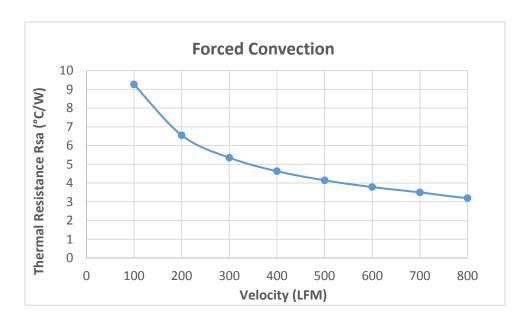




Part Number: M47098B011000G



Part Number: M47079B011000G







BOARD LEVEL COOLING - M48

Max Clip standards are designed to be a labor saving option for board level cooling. Max Clip standard work with multiple devices and can be customized for specific applications. See Max Clip Standard Part Numbering to build your semi-custom heat sink. Representative Image Only.

Benefits:

Labor Saving

- Cost Efficient Integrated clip designed into heat sink
- Time Saver Easy assemble before wave soldering
- Customizable Solder pins and length



ORDERING INFORMATION

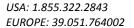
Part Number	Device Type
M48059B011000G	TO-247, TO-220, TO-126
M48079B011000G	TO-247, TO-220, TO-126
M48098B011000G	TO-247, TO-220, TO-126
M48118B021000G	TO-247, TO-220, TO-126

HEAT SINK DETAILS

Property	Details
Material	Aluminum
Finish	Black Anodize
Device Attachment Options	One-Two Solderable Pins
Thermal Interface Material	-

Property	Details	
Heat Sink Width (mm)	22.00 (0.866)	
Heat Sink Length (mm)	See below table	
Heat Sink Height (mm)	38.5 (1.515)	
Heat Sink Mounting Direction	Vertical, Horizontal	

For additional order information please see Max Clip Standard Part Numbering System. Aavid reserves the right to make changes to products or information contained herein without noticed. For additional information, please contact Aavid directly.

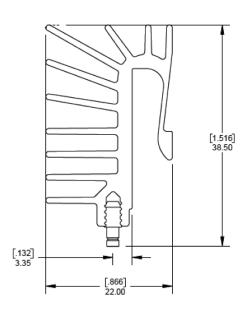


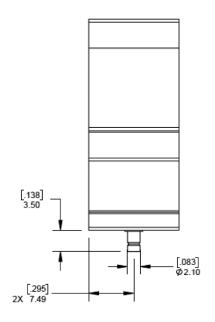


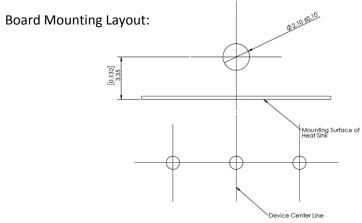


Drawing dimensions are shown in mm, (in)

Part Number	Length
M48059B011000G	14.99 (0.59)
M48079B011000G	20.07 (0.79)
M48098B011000G	24.89 (0.98)
M48118B021000G	30.15 (1.18)





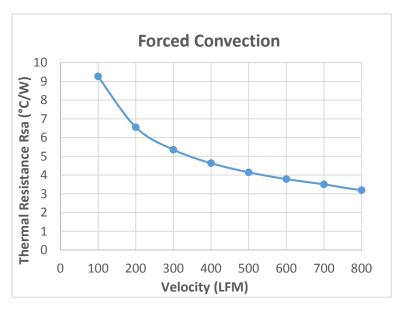




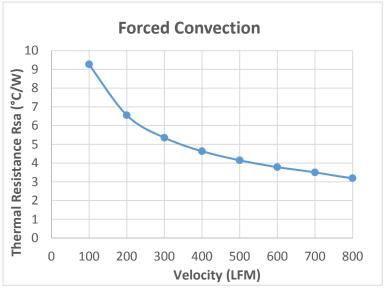




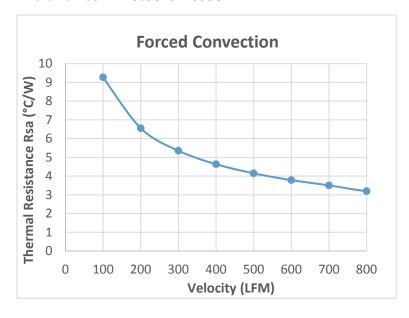
Part Number: M48079B011000G



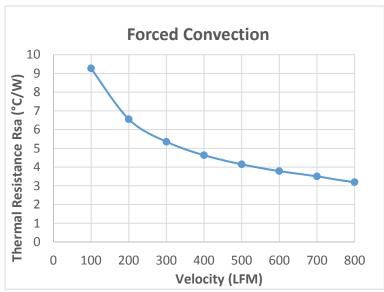
Part Number: M48059B011000G



Part Number: M48098B011000G



Part Number: M48118B021000G









BOARD LEVEL COOLING - M49

Max Clip standards are designed to be a labor saving option for board level cooling. Max Clip standard work with multiple devices and can be customized for specific applications. See Max Clip Standard Part Numbering to build your semi-custom heat sink. Representative Image Only.

Benefits:

Labor Saving

- Cost Efficient Add a clip and thermal interface material
- Time Saver Easy assemble before wave soldering
- Customizable Solder pins, interface material, length & clip



ORDERING INFORMATION

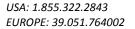
Part Number	Device Type
M49138B011000G	TO-247, TO-220, TO-126
M49165B021000G	TO-247, TO-220, TO-126

HEAT SINK DETAILS

Property	Details
Material	Aluminum
Finish	Black Anodize
Device Attachment Options	Solderable Pins
Thermal Interface Material	-

Property	Details	
Heat Sink Width (mm)	22.00 (0.866)	
Heat Sink Length (mm)	See Below Table	
Heat Sink Height (mm)	32.00 (1.26)	
Heat Sink Mounting Direction	Vertical, Horizontal	

Clips are sold separately. For additional order information please see Max Clip Standard Part Numbering System. Aavid reserves the right to make changes to products or information contained herein without noticed. For additional information, please contact Aavid directly.

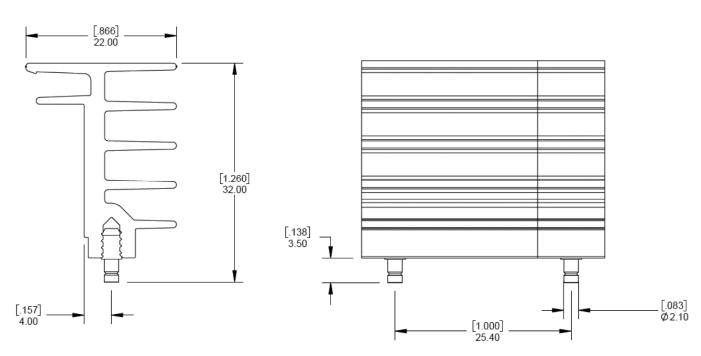




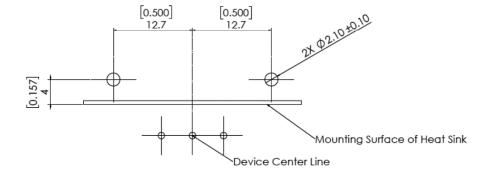


Drawing dimensions are shown in mm, (in)

Part Number	"X" Dim
M49138B011000G	35.05 (1.38)
M49165B021000G	41.91 (1.65)



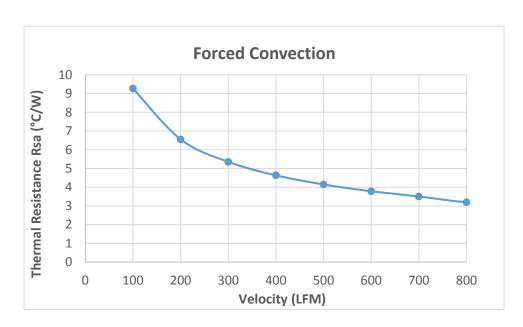
Board Mounting Layout:



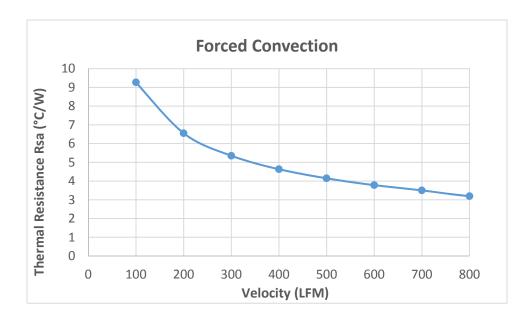




Part Number: M49138B011000G



Part Number: M49165B021000G







HOW TO BUILD AN AAVID MAX CLIP STANDARD PART NUMBER

Aavid's Max Clip Standard part numbering system consists of a 14-digit part number sequence. In the standard offerings, Category A or the first digit refers to the series which is defaulted as "M". The following 2nd and 3rd digits are Category B which defines the base profile of the Max Clip part. Digits 4-6, Category C refers to cut length. The decimal point is assumed between the 4th and 5th digit. Standard parts for the Max Clip parts can be quoted in lengths under 10" any longer lengths will be quoted custom.

Category D is digit 7 and refers to the finish, followed by digit 8 or Category E which defines the thermal interface material. The 9th and 10th digits or Category F calls out the number of pins and the pin type for board mounting. The last sequence of the part number are the device mounting or Category G, digits 11-13 and refer to the number of clips and the Max Clip type.

CATEGORY B - DIGITS 2-3: BASE PROFILE

Code	Base Extrusion	Height	Width	Dual Mount
45	78020	51.00 (2.008 in)	30.00 (1.181 in)	Υ
46	78060	48.36 (1.904 in)	30.00 (1.181 in)	N
47	78065	30.80 (1.212 in)	18.85 (0.742 in)	N
48	78240	38.58 (1.519 in)	21.94 (0.864 in)	N
49	78265	31.36 (1.235 in)	22.00 (0.866 in)	N

CATEGORY D – DIGIT 7: FINISH

Code	Description	
В	Black anodize	
U	Unfinished / Wash	
V	AavSHIELD3 – RoHS compliant hexavalent chromate finish	

PART NUMBERING GUIDE

Α	(Digits 1) =	Serie
В	(Digits 2-3) =	Base
С	(Digit 4-6) =	Cut l
D	(Digit 7) =	Finis
Ε	(Digits 8) =	Ther
F	(Digits 9-10) =	Boar
G	(Digit 11-13) =	Devi
Н	(Digits 14) =	RoH

M 45 225 B 0 . A B C D E

CATEGORY C – DIGIT 4-6: CUTTING O

The cut length option is limited to lengths two decimals places. The decimal place is 5th digit.

CATEGORY E - DIGIT 8: THERMAL INT

Desc	Code	
N	0	
Kon-Dux™ Pad - Thermal and	1	
In-Sil-8™ Pad - Silicone based i conduct	2	
Thermasil III - Silicone based in conduct	3	





CATEGORY F - DIGITS 9-10: BOARD MOUNTING

Solderable Pins for Board Mounting

To order pins please include the quantity of pins needed in the 9^{th} digit, up to 9 pins can be ordered. For standard parts pins are spaced 1" center to center or centered with the extrusion.

Code	Description
00	No Pin
01	Stand-off Pin 0mm
02	Stand-off Pin 1mm
03	Stand-off Pin 3mm
04	Stand-off Pin 5mm
05	Custom Pin

Example Part Numbers:

M45165B021023G – Part number uses base profile 78020 is 1.65" in length, is black anodized and includes the following: two, 0mm stand-off pins and two Max03NG clips.

M49525B332000G - Part number uses base profile 78265 is 5.25" in length, is black anodized and includes the following: Thermalsil III thermal interface material and three, 1mm stand-off pins.

CATEGORY G – DIGITS 11-13: DEVICE M

Max Clips[™] (Also Sold Separately)

To order clips please include the quantity of 12th digits. Please note that Dual Mounted r clips.

Part #
None
Max01NG
Max02NG
Max03NG
Max04NG
Max09NG
Max10NG
Max11NG
Max12NG
Max13NG
Max14NG
Max15NG
Max23NG
Max01-HG
Max02-HG
Max03-HG





CLIP INDEX

Max Clips[™] (Also Sold Separately)

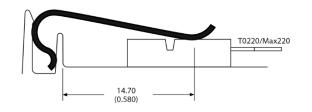
Code	Part #	Short Clip	Long Clip	Normal Force 20N-40N	Normal Force 30N-50N	High Force 50N+	High Fo
001	Max01NG	-	-	TO-220, TO-218, TO-251, TO-262, TO-273	-	-	-
002	Max02NG	-	-	TO-220, TO-218, TO-251, TO-262, TO-273	-	-	-
003	Max03NG	-	-	-	TO-247, TO-274	-	-
004	Max04NG	-	-	-	-	-	-
005	Max09NG	TO-220, TO-218, TO-251, TO-262, TO-273	-	-	-	-	-
006	Max10NG	-	TO-220, TO-218, TO-251, TO-262, TO-273	-	-	-	-
00D	Max01-HNG	-	-	-	-	TO-220, TO-218, TO-251, TO-262, TO-273	-
00E	Max02-HNG	-	-	-	-	-	TO-247, TO-3
00F	Max03-HNG	-	-	-	-	-	TO-247, TO-3

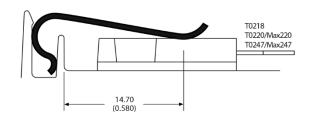




Γ	Max01	×01 Width Thickness		Force		
ı	IVIANUI	10 mm	X	0.5	=	22 N

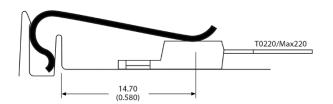
Max03	Width		Thickness		Force
Maxus	15 mm	Х	0.5	=	45 N

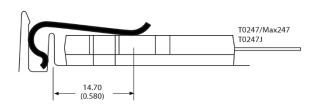




Max02	Width	7	Thickness		Force
Maxuz	12 mm	Х	0.5	=	35 N

Max04	Width		Thickness		Force
Maxu	20 mm	x	0.5	=	60 N



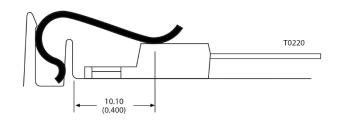


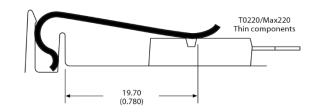






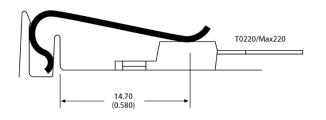
Max10	Width	Thic	kness		Force
Maxio	12 mm	v (16	_	40 N

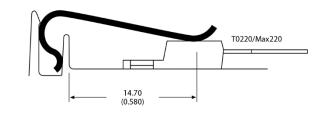




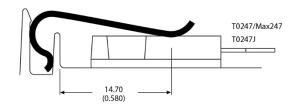
MaxO1 H Width	Thickness	Force
VIAXUI-H 10 mm	v 07 –	00 N

Γ	Max02-H	Width		Thickness		Force
l	WIANUZ-II	13 mm	Х	0.6	=	60 N





Мах03-Н	Width	7	Thickness		Force
Max03-11	18 mm	Х	0.6	=	80 N





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CLP-7701G HAA083 HAF10L HAQ10T D10100-28 TO5-002D BDN183CBA01 3-21053-4 32438 TX0506-1B TX1806B LAE66A3CB
WA-DT2-101E 511-3U 73381PPBA 73403PPBA 7G0047C COMX-440-HSP 510-12M D10650-40T5 V8511 Y APF40-40-13CB/A01
780653U04500G ATS-54310K-C2-R0 FK 216 CB SA FK 231 SA 220 648-51AB 657-20ABPESC 2341BG 679-25AG