

Military Class

(A-A-59125) / (MIL-T-55164)

Military Class: Closed Back

These military blocks feature molded-in terminals in an improved Kulka® design for greater strength and flexibility. The mounting holes are covered with molded-in reinforcement straddle plates.



37TB06F

A-A-59125/ MIL-T-55164 Information		Terminal Type	Voltage		Current	Wire & Lug Information				
Class	Spec #	Description	Max Rated	Dielectric with Test	Max Rated	Screw Size	RECMD Max Wire Size	MS17143 Lug #	Max Lug Width	RECMD Torque Lb-In (N-M)
37 TB	/ 1	Double Screw	300 V RMS	3000 V RMS	15 Amp 60 Hz	#6	#16 AWG	-11	0.282" [7.2]	8-10 [0.9-1.1]
38 TB	/ 2	Double Screw	600 V RMS	3400 V RMS	20 Amp 60 Hz	#6	#14 AWG	-14	0.31" [7.9]	8-10 [0.9-1.1]
39 TB	/ 3	Double Screw	600 V RMS	4000 V RMS	30 Amp 60 Hz	#8	#10 AWG	-9	0.41" [10.4]	10-12 [1.1-1.4]
40 TB	/ 4	Single Screw Feed Thru	300 V RMS	3000 V RMS	7.5 Amp 60 Hz	#6	#18 AWG	-10	0.282" [7.2]	8-10 [0.9-1.1]
41 TB	/ 5	Single Screw Feed Thru	600 V RMS	3400 V RMS	10 Amp 60 Hz	#6	#16 AWG	-14	0.31" [7.9]	8-10 [0.9-1.1]
42 TB	/ 6	Single Screw Feed Thru	600 V RMS	4000 V RMS	15 Amp 60 Hz	#8	#14 AWG	-8	0.41" [10.4]	10-12 [1.1-1.4]

A-A-59125 superceeded MIL-T-55164-C in 1997.

These terminal blocks are compliant to the A-A-59125 standard and are constructed to meet both standards.

Military Class (A-A-59125) / (MIL-T-55164)

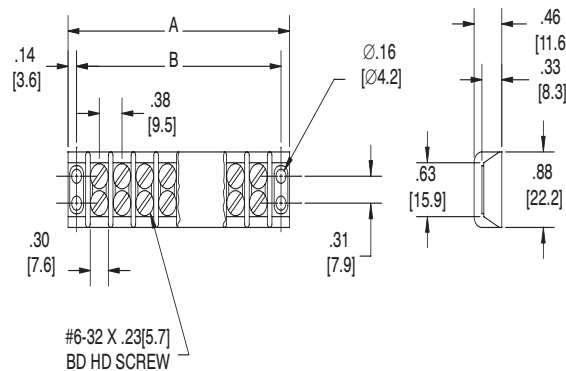
37TB-Military Class (A-A-59125/1)/(MIL-T-55164/1)

Molded Material:

- Plastic: grade F temperature rating 155°C per MIL-M-14
- Screws: Brass per QQ-W-321, nickel plated per QQ-N-290
- Terminal Plates: Brass per QQ-B-613, nickel plated per QQ-N-290

Electrical Rating:

- Rated voltage (maximum): 300 volts
- Current rating: 15 amps
- D.W.V.: 3000 volts RMS



Military Type Designation	# of Poles	Dimensions	
		A	B
37TB 02 F	2	1.360-1.453	1.109-1.156
37TB 03 F	3	1.735-1.828	1.484-1.531
37TB 04 F	4	2.110-2.203	1.859-1.906
37TB 05 F	5	2.500-2.593	2.234-2.281
37TB 06 F	6	2.876-2.969	2.609-2.656
37TB 07 F	7	3.250-3.343	2.984-3.031
37TB 08 F	8	3.626-3.719	3.359-3.406
37TB 09 F	9	4.000-4.093	3.734-3.781
37TB 10 F	10	4.376-4.469	4.109-4.156
37TB 11 F	11	4.750-4.843	4.484-4.531
37TB 12 F	12	5.126-5.219	4.859-4.906
37TB 13 F	13	5.500-5.593	5.234-5.281
37TB 14 F	14	5.876-5.969	5.609-5.656
37TB 15 F	15	6.250-6.343	5.969-6.047
37TB 16 F	16	6.626-6.735	6.344-6.422
37TB 17 F	17	7.000-7.109	6.719-6.797
37TB 18 F	18	7.376-7.485	7.094-7.172
37TB 19 F	19	7.752-7.812	7.469-7.547
37TB 20 F	20	8.127-8.187	7.844-7.922
37TB 21 F	21	8.502-8.562	8.219-8.297
37TB 22 F	22	8.877-8.937	8.594-8.672
37TB 23 F	23	9.252-9.312	8.969-9.047
37TB 24 F	24	9.627-9.687	9.344-9.422
37TB 25 F	25	10.002-10.062	9.719-9.797
37TB 26 F	26	10.377-10.437	10.094-10.172
37TB 27 F	27	10.752-10.812	10.469-10.547
37TB 28 F	28	11.127-11.187	10.844-10.922
37TB 29 F	29	11.502-11.562	11.219-11.297
37TB 30 F	30	11.877-11.937	11.594-11.672
37TB 31 F	31	12.252-12.312	11.969-12.047

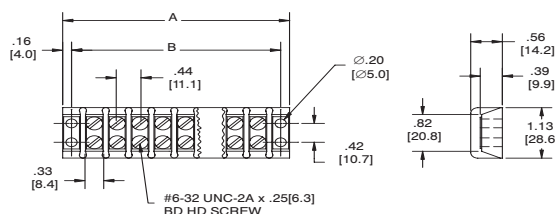
38TB-Military Class (A-A-59125/2)/(MIL-T-55164/2)

Molded Material:

- Plastic: grade F temperature rating 155°C per MIL-M-14
- Screws: brass per QQ-W-321, nickel plated per QQ-N-290
- Terminal plates: brass per QQ-B-613, nickel plated per QQ-N-290

Electrical Rating:

- Rated voltage (maximum): 600 volts
- Current rating: 20 amps
- D.W.V.: 3400 volts RMS



Military Type Designation	# of Poles	Dimensions	
		A	B
38TB 02 F	2	1.579-1.672	1.296-1.343
38TB 03 F	3	2.016-2.109	1.734-1.781
38TB 04 F	4	2.454-2.547	2.172-2.219
38TB 05 F	5	2.891-2.984	2.609-2.656
38TB 06 F	6	3.329-3.422	3.046-3.093
38TB 07 F	7	3.766-3.859	3.484-3.531
38TB 08 F	8	4.204-4.297	3.937-3.984
38TB 09 F	9	4.641-4.734	4.375-4.422
38TB 10 F	10	5.079-5.172	4.812-4.859
38TB 11 F	11	5.532-5.625	5.250-5.297
38TB 12 F	12	5.969-6.078	5.687-5.734
38TB 13 F	13	6.407-6.516	6.110-6.188
38TB 14 F	14	6.844-6.953	6.547-6.625
38TB 15 F	15	7.282-7.391	6.985-7.063
38TB 16 F	16	7.719-7.828	7.422-7.500
38TB 17 F	17	8.157-8.266	7.860-7.938
38TB 18 F	18	8.594-8.703	8.297-8.375
38TB 19 F	19	9.079-9.156	8.750-8.828
38TB 20 F	20	9.517-9.594	9.188-9.266
38TB 21 F	21	9.954-10.031	9.625-9.703
38TB 22 F	22	10.392-10.469	10.063-10.141
38TB 23 F	23	10.829-10.906	10.500-10.578

Military Class

(A-A-59125) / (MIL-T-55164)

39TB-Military Class

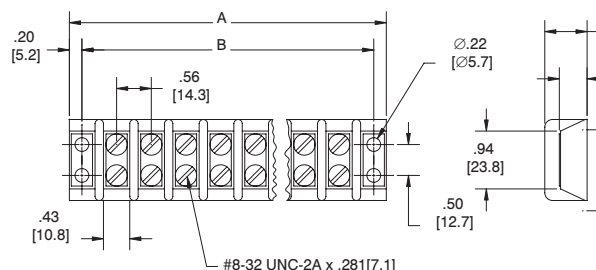
(A-A-59125/3)/(MIL-T-55164/3)

Molded Material:

- Plastic: Grade F temperature rating 155°C per MIL-M-14
- Screws: Brass per QQ-W-321, nickel plated per QQ-N-290
- Terminal Plates: Brass per QQ-B-613, nickel plated per QQ-N-290

Electrical Rating:

- Rated voltage (maximum): 600 volts
- Current rating: 30 Amps
- D.W.V.: 4000 volts RMS



Military Type Designation	# of Poles	Dimensions	
		A	B
39TB 02 F	2	2.047-2.140	1.672-1.719
39TB 03 F	3	2.626-2.719	2.234-2.281
39TB 04 F	4	3.188-3.281	2.796-2.843
39TB 05 F	5	3.750-3.843	3.359-3.406
39TB 06 F	6	4.313-4.406	3.922-3.969
39TB 07 F	7	4.876-4.969	4.484-4.531
39TB 08 F	8	5.438-5.531	5.046-5.093
39TB 09 F	9	6.000-6.109	5.625-5.672
39TB 10 F	10	6.563-6.672	6.172-6.250
39TB 11 F	11	7.126-7.235	6.719-6.797
39TB 12 F	12	7.688-7.797	7.297-7.375
39TB 13 F	13	8.250-8.359	7.860-7.938
39TB 14 F	14	8.813-8.922	8.422-8.500
39TB 15 F	15	9.376-9.485	8.985-9.063
39TB 16 F	16	9.938-10.047	9.547-9.625
39TB 17 F	17	10.500-10.609	10.110-10.188
39TB 18 F	18	11.079-11.188	10.672-10.750

40TB-Military Class

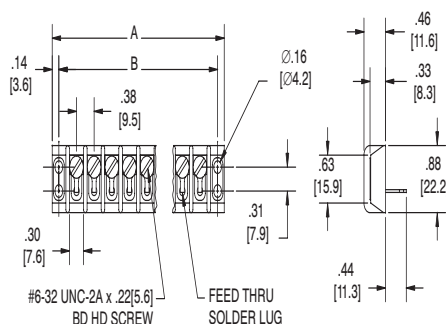
(A-A-59125/4)/(MIL-T-55164/4)

Molded Material:

- Same as 37 TB Class
- Hardware: lug, brass per QQ-B-613, tin plated

Electrical Rating:

- Rated voltage (maximum): 300 volts
- Current rating: 7.5 amps
- D.W.V.: 3000 volts RMS



Military Type Designation	# of Poles	Dimensions	
		A	B
40TB 02 F	2	1.360-1.453	1.109-1.156
40TB 03 F	3	1.735-1.828	1.484-1.531
40TB 04 F	4	2.110-2.203	1.859-1.906
40TB 05 F	5	2.500-2.593	2.234-2.281
40TB 06 F	6	2.876-2.969	2.609-2.656
40TB 07 F	7	3.250-3.343	2.984-3.031
40TB 08 F	8	3.626-3.719	3.359-3.406
40TB 09 F	9	4.000-4.093	3.734-3.781
40TB 10 F	10	4.376-4.469	4.109-4.156
40TB 11 F	11	4.750-4.843	4.484-4.531
40TB 12 F	12	5.126-5.219	4.859-4.906
40TB 13 F	13	5.500-5.593	5.234-5.281
40TB 14 F	14	5.876-5.969	5.609-5.656
40TB 15 F	15	6.250-6.365	5.969-6.047
40TB 16 F	16	6.626-6.735	6.344-6.422
40TB 17 F	17	7.000-7.109	6.719-6.797
40TB 18 F	18	7.376-7.485	7.094-7.172
40TB 19 F	19	7.752-7.812	7.469-7.547
40TB 20 F	20	8.127-8.187	7.844-7.922
40TB 21 F	21	8.502-8.562	8.219-8.297
40TB 22 F	22	8.877-8.937	8.594-8.672
40TB 23 F	23	9.252-9.312	8.969-9.047
40TB 24 F	24	9.627-9.687	9.344-9.422
40TB 25 F	25	10.002-10.062	9.719-9.797
40TB 26 F	26	10.377-10.437	10.094-10.172
40TB 27 F	27	10.752-10.812	10.469-10.547
40TB 28 F	28	11.127-11.187	10.844-10.922
40TB 29 F	29	11.502-11.562	11.219-11.297
40TB 30 F	30	11.877-11.937	11.594-11.672
40TB 31 F	31	12.252-12.312	11.969-12.047

Military Class

(A-A-59125) / (MIL-T-55164)

41TB-Military Class

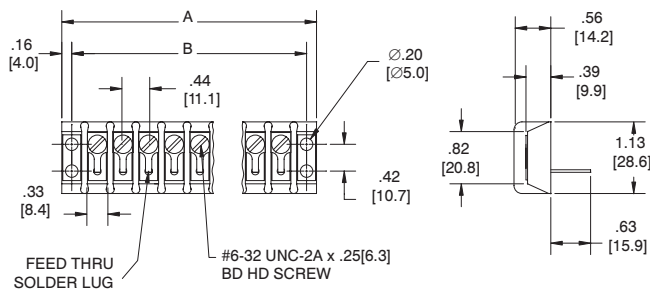
(A-A-59125/5)/(MIL-T-55164/5)

Molded Material:

- Same as 38TB Class
- Hardware: Lug, Brass per QQ-B-613, tin plated

Electrical Rating:

- Rated voltage (maximum): 600 volts
- Current rating: 10 Amps
- D.W.V.: 3400 volts RMS



Military Type Designation	# of Poles	Dimensions	
		A	B
41TB 02 F	2	1.579-1.672	1.296-1.343
41TB 03 F	3	2.016-2.109	1.734-1.781
41TB 04 F	4	2.454-2.547	2.172-2.219
41TB 05 F	5	2.891-2.984	2.609-2.656
41TB 06 F	6	3.329-3.422	3.046-3.093
41TB 07 F	7	3.766-3.859	3.484-3.531
41TB 08 F	8	4.204-4.297	3.937-3.984
41TB 09 F	9	4.641-4.734	4.375-4.422
41TB 10 F	10	5.079-5.172	4.812-4.859
41TB 11 F	11	5.532-5.625	5.250-5.297
41TB 12 F	12	5.969-6.078	5.687-5.734
41TB 13 F	13	6.407-6.516	6.110-6.188
41TB 14 F	14	6.844-6.953	6.547-6.625
41TB 15 F	15	7.282-7.391	6.985-7.063
41TB 16 F	16	7.719-7.828	7.422-7.500
41TB 17 F	17	8.157-8.266	7.860-7.938
41TB 18 F	18	8.594-8.703	8.297-8.375
41TB 19 F	19	9.079-9.156	8.750-8.828
41TB 20 F	20	9.517-9.594	9.188-9.266
41TB 21 F	21	9.954-10.031	9.625-9.703
41TB 22 F	22	10.392-10.469	10.063-10.141
41TB 23 F	23	10.829-10.906	10.500-10.578

42TB-Military Class

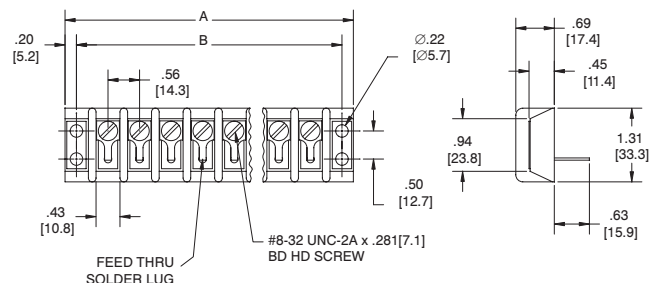
(A-A-59125/6)/(MIL-T-55164/6)

Molded Material:

- Same as 39TB Class
- Hardware: Lug, brass per QQ-B-613, tin plated

Electrical Rating:

- Rated voltage (maximum): 600 volts
- Current rating: 15 amps
- D.W.V.: 3400 volts RMS



Military Type Designation	# of Poles	Dimensions	
		A	B
42TB 02 F	2	2.047-2.140	1.672-1.719
42TB 03 F	3	2.626-2.719	2.234-2.281
42TB 04 F	4	3.188-3.281	2.796-2.843
42TB 05 F	5	3.750-3.843	3.359-3.406
42TB 06 F	6	4.313-4.406	3.922-3.969
42TB 07 F	7	4.876-4.969	4.484-4.531
42TB 08 F	8	5.438-5.531	5.046-5.093
42TB 09 F	9	6.000-6.109	5.625-5.672
42TB 10 F	10	6.563-6.672	6.172-6.250
42TB 11 F	11	7.126-7.235	6.719-6.797
42TB 12 F	12	7.688-7.797	7.297-7.375
42TB 13 F	13	8.250-8.359	7.860-7.938
42TB 14 F	14	8.813-8.922	8.422-8.500
42TB 15 F	15	9.376-9.485	8.985-9.063
42TB 16 F	16	9.938-10.047	9.547-9.625
42TB 17 F	17	10.500-10.609	10.110-10.188
42TB 18 F	18	10.079-11.188	10.672-10.750

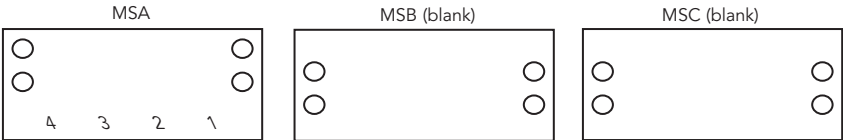
Military Class Marking Strips

Marking Styles MSA, MSB, MSC

Top Surface of
Marking Strip



Bottom Surface of
Marking Strip



Requirements:

- Type Mount: Bottom Only
- Dimensions: See Below
- Material: Type GME
- Marking: Marking Strips shall be Marked in Accordance with CID A-A-59125 (can be provided to MIL T55164)

A single letter shall be inserted in the above type designation to specify the marking style (A, B or C).

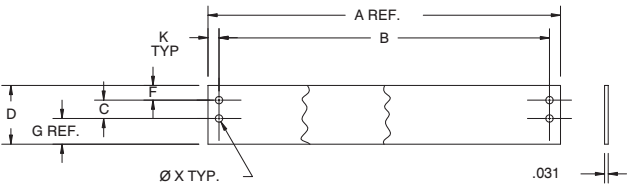
Both the front and the back of the marking strips shall be marked as indicated. The numbers shall be marked at a 45 ± 2° angle with reference to the side of the marking strip, as indicated.

Type MSC37TB (blank single sided marking strip) shall have the same dimensions as type MSA.

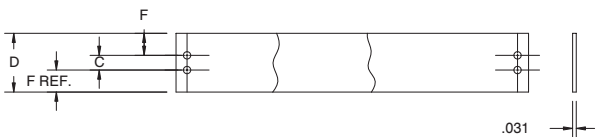
Series	Style C	Dimensions							
		D	F	G	K	W	X	N*	
37TB	MSA, MSC MSB	0.31	1.19	0.28	0.60	0.14	0.13	0.16	0.88
40TB			1.50	0.59	--				
38TB		0.42	1.50	0.34	0.69	0.16	0.13	0.18	1.13
41TB			1.75	0.67	--				
39TB		0.50	1.63	0.41	0.75	0.20	0.13	0.21	1.31
42TB			2.00	0.69	--				

*N dimension to replace D dimension for insulator strips
**Consult Customer Service on marking strips that are for terminal blocks with Z lugs.
For overall lengths, reference appropriate terminal block series A & B dimensions

Styles MSA & MSC:



Style MSB:



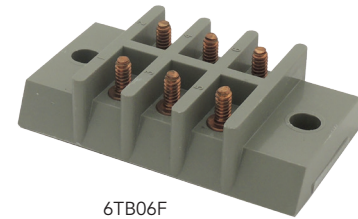
Navy Class

(A-A-59125) / (MIL-T-55164)

Notes:

Molded material is MAI-60 in accordance with MIL-M-14 (*Molded material is GDI30F).

Nuts and connectors are provided when appropriate. They are unplated brass and shipped unassembled.



6TB06F

A-A-59125/MIL-T-55164 Information		Terminal Type	Voltage		Current	Wire & Lug Information				
Class	Spec #	Description	Max Rated	Dielectric with Test	Max Rated	Screw Size	RECMD Max Wire Size	MS17143 Lug #	Max Lug Width	RECMD Torque Lb-In (N-M)
3 TB	/ 9	Single Stud Single Row	600V RMS	2000V RMS	45 Amp 60 Hz	#8	#10 AWG	-3	0.395" [10.0]	16-18 [1.8-2.0]
4 TB	/ 10	Single Stud Double Row	600 V RMS	2200 V RMS	40 Amp 60 Hz	#8	#12 AWG	-3	0.395" [10.0]	16-18 [1.8-2.0]
5 TB	/ 11	Feed Thru Stud Single Row	600 V RMS	2200 V RMS	50 Amp 60 Hz	#8	#10 AWG	-3	0.395" [10.0]	16-18 [1.8-2.0]
6 TB	/ 12	Single Stud Double Row	600 V RMS	2200 V RMS	30 Amp 60 Hz	#6	#14 AWG	-5	0.307" [7.8]	10-12 [1.1-1.4]
7 TB	/ 13	Feed Thru Stud Single Row	600 V RMS	2200 V RMS	40 Amp 60 Hz	#6	#12 AWG	-6	0.307" [7.8]	10-12 [1.1-1.4]
8 TB	/ 14	Double Stud Double Row	300 V RMS	1500 V RMS	30 Amp 60 Hz	#5	#14 AWG	-11	0.282" [7.2]	8-10 [0.9-1.1]
9 TB	/ 15	Single Stud Single Row	300 V RMS	1500 V RMS	35 Amp 60 Hz	#6	#12 AWG	—	0.307" [7.8]	10-12 [1.1-1.4]
10 TB	/ 16	Single Stud Double Row	600 V RMS	2200 V RMS	30 Amp 60 Hz	#6	#14 AWG	—	0.242" [6.1]	10-12 [1.1-1.4]
11 TB	/ 17	Feed Thru Stud Single Row	600 V RMS	2200 V RMS	40 Amp 60 Hz	#6	#12 AWG	-15	0.242" [6.1]	10-12 [1.1-1.4]
15 TB	/ 19	Single Stud Double Row	600 V RMS	2200 V RMS	30 Amp 60 Hz	#8	#14 AWG	-8	0.307" [7.8]	16-18 [1.8-2.0]
16 TB	/ 20	Single Stud Double Row	1000 V RMS	3000 V RMS	40 Amp 60 Hz	#8	#12 AWG	-3	0.395" [10.0]	16-18 [1.8-2.0]
17 TB	/ 21	Double Stud Double Row	600 V RMS	2200 V RMS	40 Amp 60 Hz	#6	#12 AWG	-3	0.395" [10.0]	10-12 [1.1-1.4]
25 TB	/ 23	Single Stud Single Row	300 V RMS	1500 V RMS	25 Amp 60 Hz	#4	#14 AWG	-17	0.242" [6.1]	6-8 [0.7-0.9]
26 TB	/ 24	Double Stud Double Row	300 V RMS	1500 V RMS	20 Amp 60 Hz	#4	#16 AWG	-20	0.242" [6.1]	6-8 [0.7-0.9]

A-A-59125 superceeded MIL-T-55164-C in 1997.

These terminal blocks are compliant to the A-A-59125 standard and are constructed to meet both standards.

(A-A-59125/9) / MIL-T-55164/9)

164/9)

Technical drawing of a 164/9 connector showing dimensions and assembly details.

Dimensions (inches and millimeters):

- Overall length: 7.38 [187.5]
- Distance from left edge to first terminal: .25 [6.4]
- Distance between terminals: .59 [15]
- Distance from last terminal to right edge: .41 [10]
- Terminal diameter: $\pm .010$
- Terminal pitch: .11R [2.8]
- Distance from left edge to first nut: .28 [7.1]
- Distance from last nut to right edge: .63 [16]
- Distance from left edge to first screw: 1.06 [26.9]
- Distance from last screw to right edge: .50 [13]
- Distance from left edge to first stud: .88 [22]
- Distance from last stud to right edge: .44 [11]

Assembly details:

- NOTE: 10 TERMINALS 10 NUTS
- MOUNT WITH NO. 10 SCREW (2-REQ'D)
- NO. 8-32 NC-2 STUD

(A-A-59125/10) / (MIL-T-55164/10)

[illegible]

(A-A-59125/11) / (MIL-T-55164/11)

Technical drawing of the NO. 8-32 NC-2 STUD. The drawing includes a side view and an end view. The side view shows a cylindrical component with 12 threads, a total length of 1.06 inches, and a diameter of .28 inches. It features a .11 inch radius on the left end and a .25 inch diameter on the right end. The end view shows a cross-section with a .31 inch outer diameter and a .38 inch inner diameter. The drawing is labeled with dimensions in inches and millimeters, and includes a note: "MOUNT WITH NO. 10 SCREW (2-REQD)".

(A-A-59125/12) / (MIL-T-55164/12)

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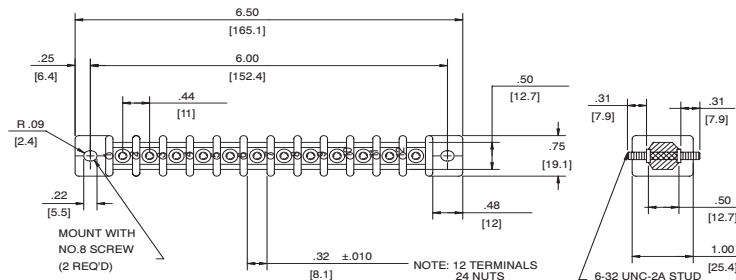
Navy Class

(A-A-59125) / (MIL-T-55164)

7TB SERIES

(A-A-59125/13) / (MIL-T-55164/13)

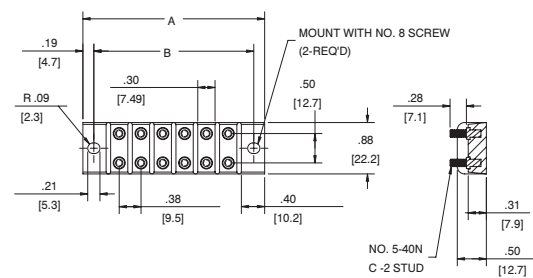
Catalog number: 7TB12F



8TB SERIES

(A-A-59125/14) / (MIL-T-55164/14)

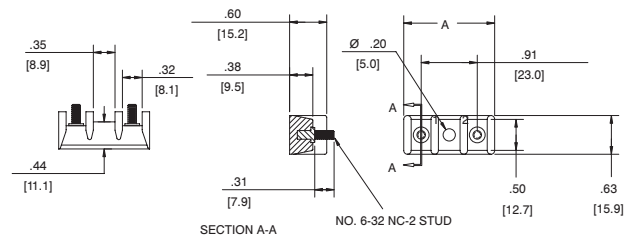
Double Row, Linked Front Connection					
Type	# of Term		Dim. A	Dim. B	Nuts
	w/stud connectors	w/o stud connectors			
8 TB 02F	2	4	1.63	1.25	4
8 TB 06F	6	12	3.13	2.75	12
8 TB 08F	8	16	3.88	3.50	16
8 TB 10F	10	20	4.63	4.25	20



9TB SERIES

(A-A-59125/15) / (MIL-T-55164/15)

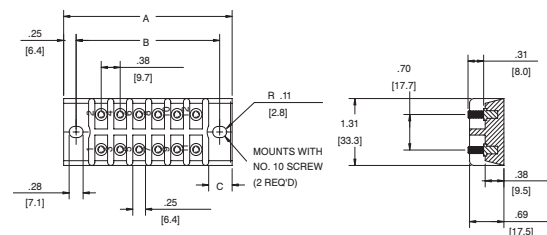
Single Row, Front Connection			
Type	# of Term	Dim. A	Nuts
9 TB 02F	2	1.48	2
9 TB 04F	4	2.37	4



10TB SERIES

(A-A-59125/16) / (MIL-T-55164/16)

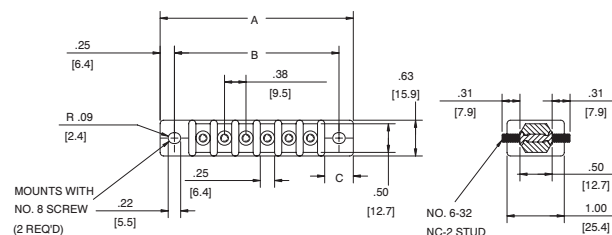
Double Row, Front Connection					
Type	# of Term	Dim. A	Dim. B	Dim. C	Nuts
10 TB 18F	18	4.63	4.13	0.56	18
10 TB 28F	28	6.50	6.00	0.56	28



11TB SERIES

(A-A-59125/17) / (MIL-T-55164/17)

Single Row, Through Connection					
Type	# of Term	Dim. A	Dim. B	Dim. C	Nuts
11 TB 04F	4	2.50	2.00	0.44	8
11 TB 06F	6	3.38	2.88	0.44	12
11 TB 14F	14	6.50	6.00	0.56	28



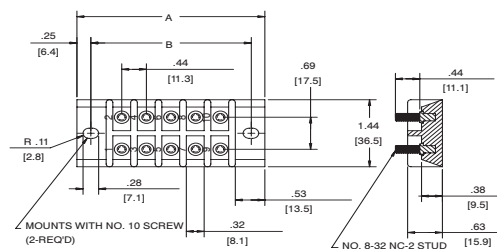
Navy Class

(A-A59125) / (MIL-T-55164)

15TB SERIES

(A-A-59125/19) / (MIL-T-55164/19)

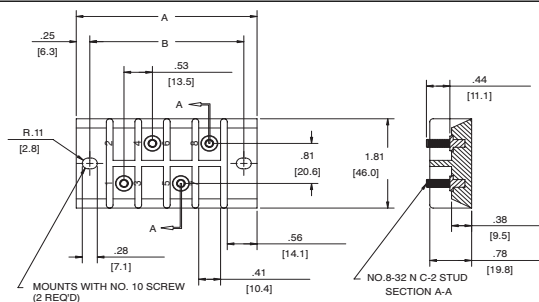
Double Row, Front Connection				
Type	# of Term	Dim. A	Dim. B	Nuts
15 TB 10F	10	3.38	2.88	10
15 TB 24F	24	6.50	6.00	24



16TB SERIES

(A-A-59125/20) / (MIL-T-55164/20)

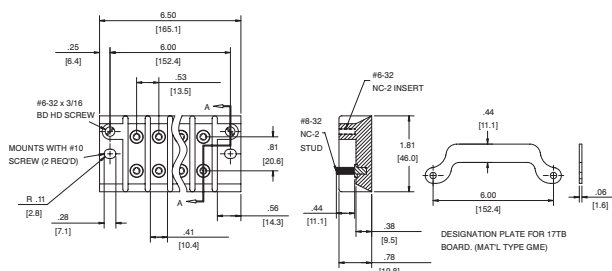
Double Row, Front Connection				
Type	# of Term	Dim. A	Dim. B	Nuts
16 TB 04F	4	3.38	2.88	4
16 TB 10F	10	6.50	6.00	10



17TB SERIES

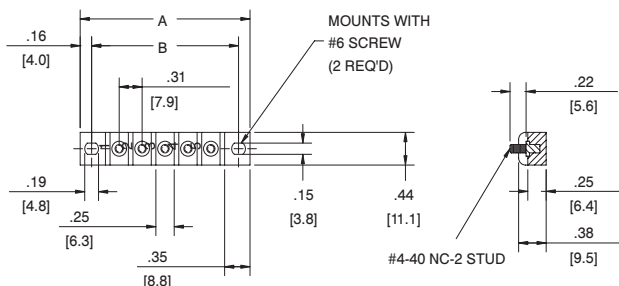
(A-A-59125/21) / (MIL-T-55164/21)

Double Row, Front Connection					
Type	# of Term		Dim. A	Dim. B	Nuts
	w/stud connectors	w/o stud connectors			
17 TB 10F	10	20	6.50	6.00	10



25TB SERIES

(A-A-59125/23) / (MIL-T-55164/23)



Single Row, Front Connection				
Type	# of Term	Dim. A	Dim. B	Nuts
25 TB 02F	2	1.38	1.06	2
25 TB 05F	5	2.31	2.00	5
25 TB 06F	6	2.63	2.31	6
25 TB 07F	7	2.94	2.63	7
25 TB 09F	9	3.56	3.25	9
25 TB 10F	10	3.88	3.56	10
25 TB 12F	12	4.50	4.19	12

26TB SERIES

(A-A-59125/24) / (MIL-T-55164/24)

Double Row, Linked Front Connection					
Type	# of Term		Dim. A	Dim. B	Nuts
	w/stud connectors	w/o stud connectors			
26 TB 06F	6	12	2.63	2.31	12
26 TB 08F	8	16	3.25	2.94	16
26 TB 10F	10	20	3.88	3.56	20
26 TB 12F	12	24	4.50	4.19	24

