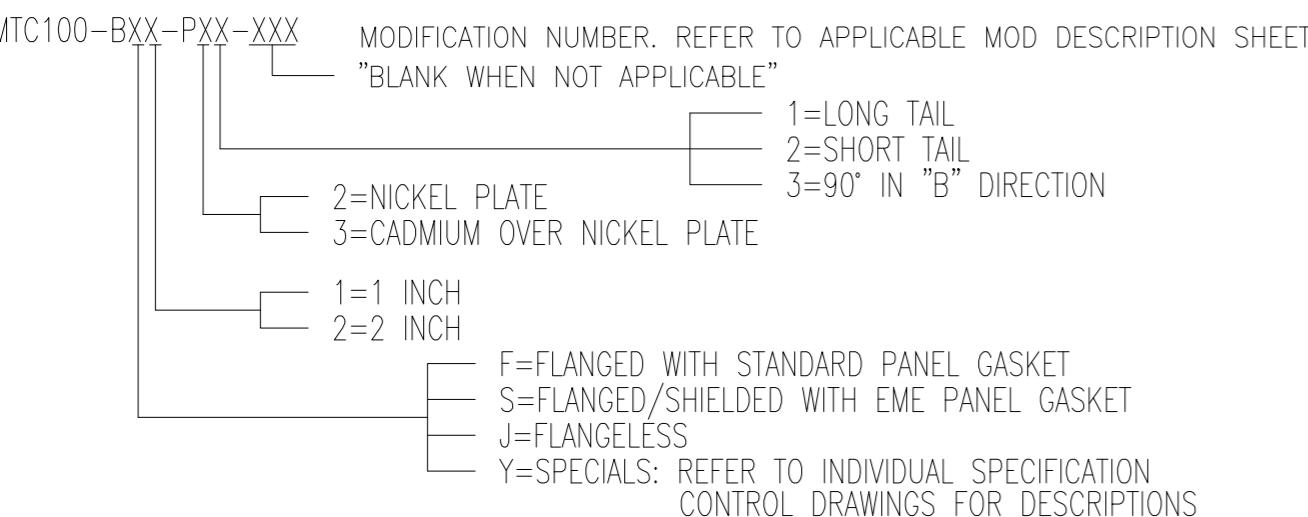


## NOTES:

1. PART NUMBER VARIABLES: (SEE SHEET 2 FOR ADDITIONAL INFORMATION)  
NOT ALL POSSIBLE CONFIGURATIONS SHOWN ON THIS DRAWING ARE AVAILABLE AS STANDARD PRODUCTS.  
PLEASE CHECK WITH TE CONNECTIVITY TO CONFIRM AVAILABILITY.



2. A BOX MOUNT RECEPTACLE MATES WITH A MTC PLUG CONTAINING SOCKET INSERTS.  
REFER TO APPLICABLE TE CONNECTIVITY SPECIFICATION CONTROL DRAWING FOR DETAILS.

3. FOR KEYING INFORMATION, SEE TE CONNECTIVITY DRAWING D-659-0080.

4. THESE ITEMS ARE SUPPLIED UNASSEMBLED.

5. DIMENSION SHOWN IS WITH MATED PLUG CONNECTOR:  
a. WITH CABLE CLAMP  
b. WITHOUT CABLE CLAMP AND WITHOUT EARS

6. THIS BOX MOUNT RECEPTACLE IS REAR PANEL MOUNTED BY REMOVING AS MANY PANEL WASHERS AS REQUIRED TO ACCOMMODATE THE THICKNESS OF THE PANEL BEING USED.  
SEE SHEET 2, TABLE 2, AND SHEET 3, FIGURE 2.

7. FOR FRONT PANEL MOUNTING OF A FLANGELESS CONNECTOR, USE HARDWARE KIT CHA-0038-00 AND REFER TO THAT SPECIFICATION CONTROL DRAWING FOR APPLICATION DETAILS.

8. WIRE WRAPPABLE POST DESIGNED BY STANDARD WIRE WRAP SPECIFICATION.

9. WHEN MOUNTING FLANGELESS CONNECTORS ADJACENT TO ONE ANOTHER AND USING THE .400 MINIMUM CENTERLINE LOCATION, THERE WILL BE NO WEB BETWEEN PANEL CUT-OUTS. SEE SHEET 3, FIGURE 2 FOR DETAILS.

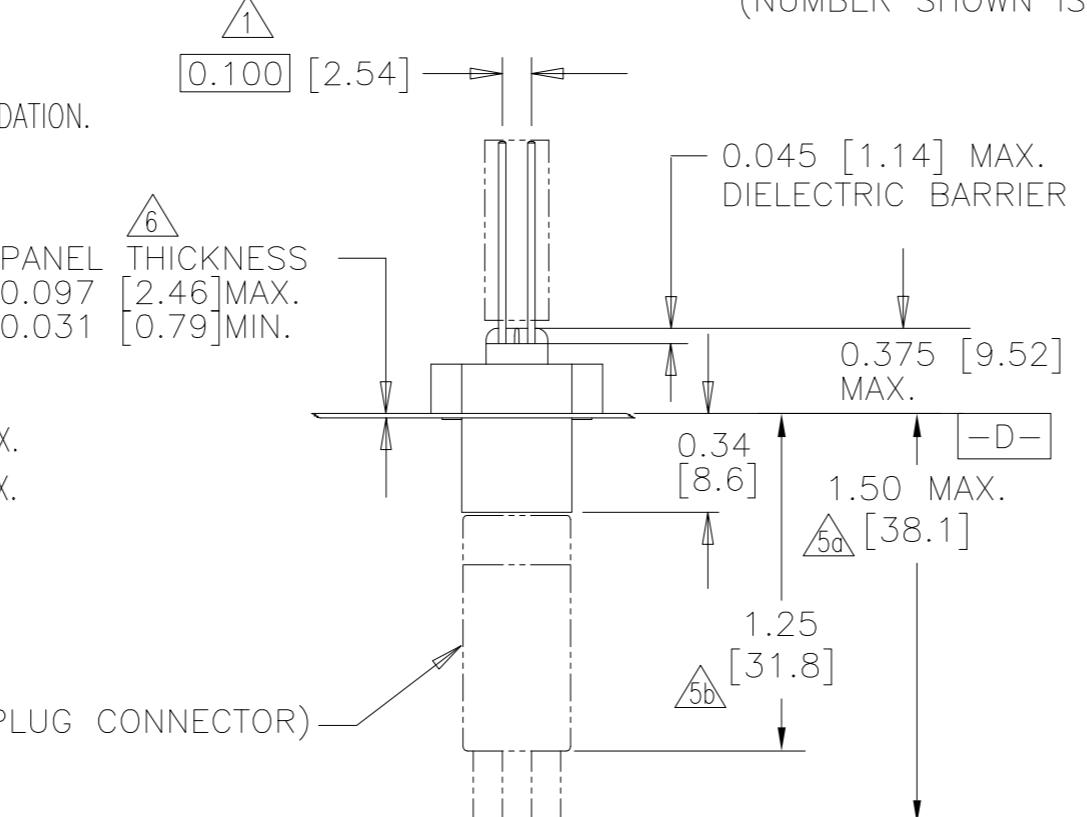
10. KIT NUMBER CHA-0046 IS AVAILABLE FOR MOUNTING A CONNECTOR TO A PRINTED CIRCUIT BOARD. SEE SHEET 3, FIGURE 3 FOR HOLE PATTERN RECOMMENDATION.

11. SEE SHEET 3, TABLE 3, FOR WEIGHTS. WEIGHTS SHOWN ARE WITHOUT DUST CAP AND WITHOUT POST PROTECTOR.

12. DUST CAP SUPPLIED WITH ASSEMBLY.

13. TORQUE MOUNTING HARDWARE TO: 14-16 IN-LBS.

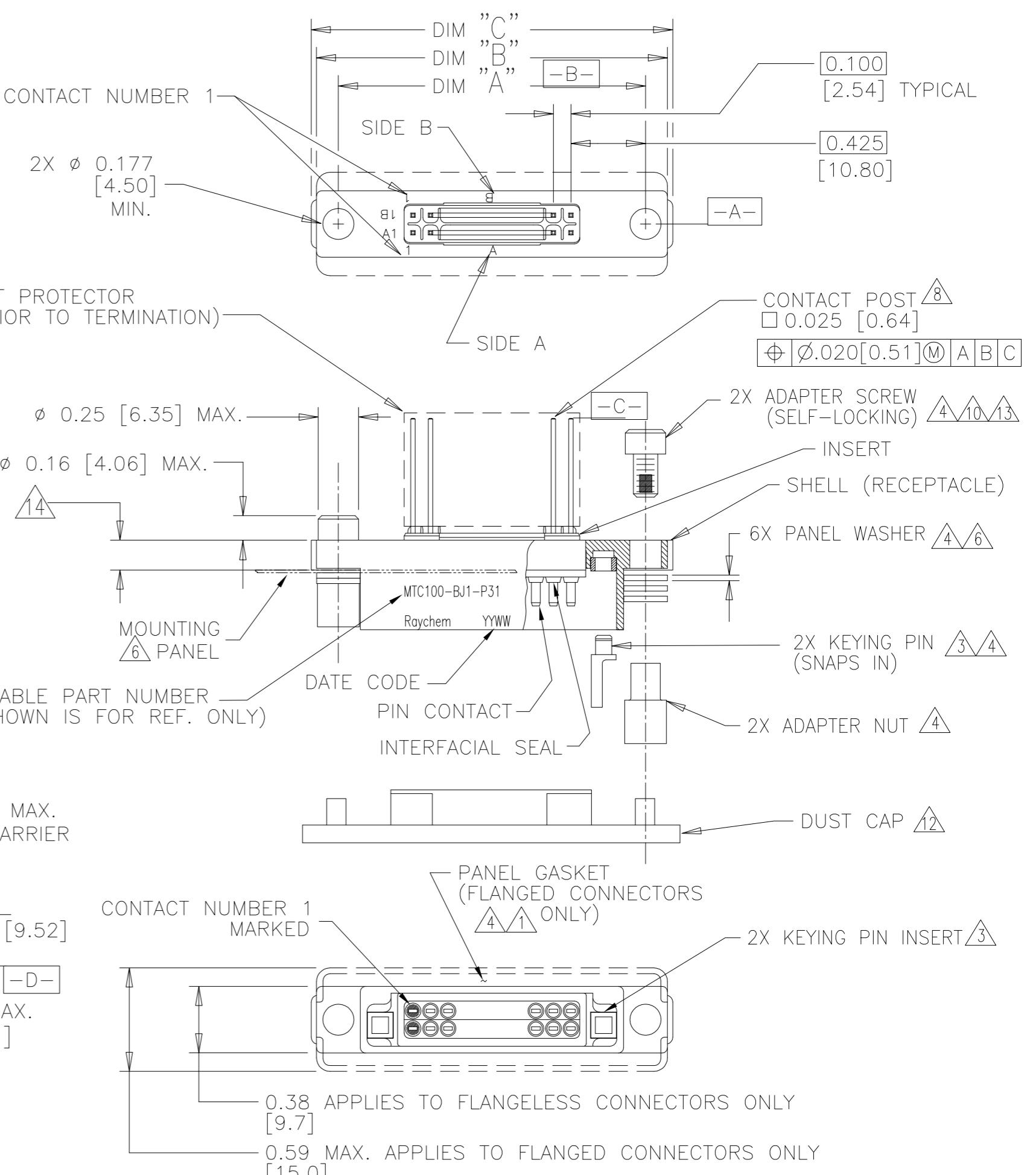
14. THE FLANGE THICKNESS IS DIFFERENT ACCORDING TO SHELL STYLE AND SIZE.  
THE THICKNESS: 0.170 [4.32] FOR P/N MTC100-BF2-PXX AND MTC100-BS2-PXX.  
THE THICKNESS: 0.160 [4.06] FOR P/N MTC100-BX1-PXX AND MTC100-BJ2-PXX.



VIEW W-W

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REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
J1	REVISED PER ECO-11-005139	29MAR11	RK/HMR



CUSTOMER DRAWING

<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. METRIC DIMENSIONS ARE IN BRACKETS.</p> <p>DECIMALS .XXX ± .005 .XX ± .01 ANGLES .X ±</p> <p>WEIGHT</p>	RE-DRAWN	J.VALENTA	04/20/99	 <p>TE Connectivity</p> <p>Raychem Interconnect 300 Constitution Drive Menlo Park, CA 94025 U.S.A</p>	
	CHECKED				
	APPROVED	M.HIGGY	04/23/99		
	APPROVED				
	CAD NAME	MTC100-BXX-PXX-XXX			
	SIZE	CAGE CODE:	DWG. NO.		
	C	06090	MTC100-BXX-PXX-XXX	REV J1	
	SCALE: NONE			SHEET 1 OF 3	

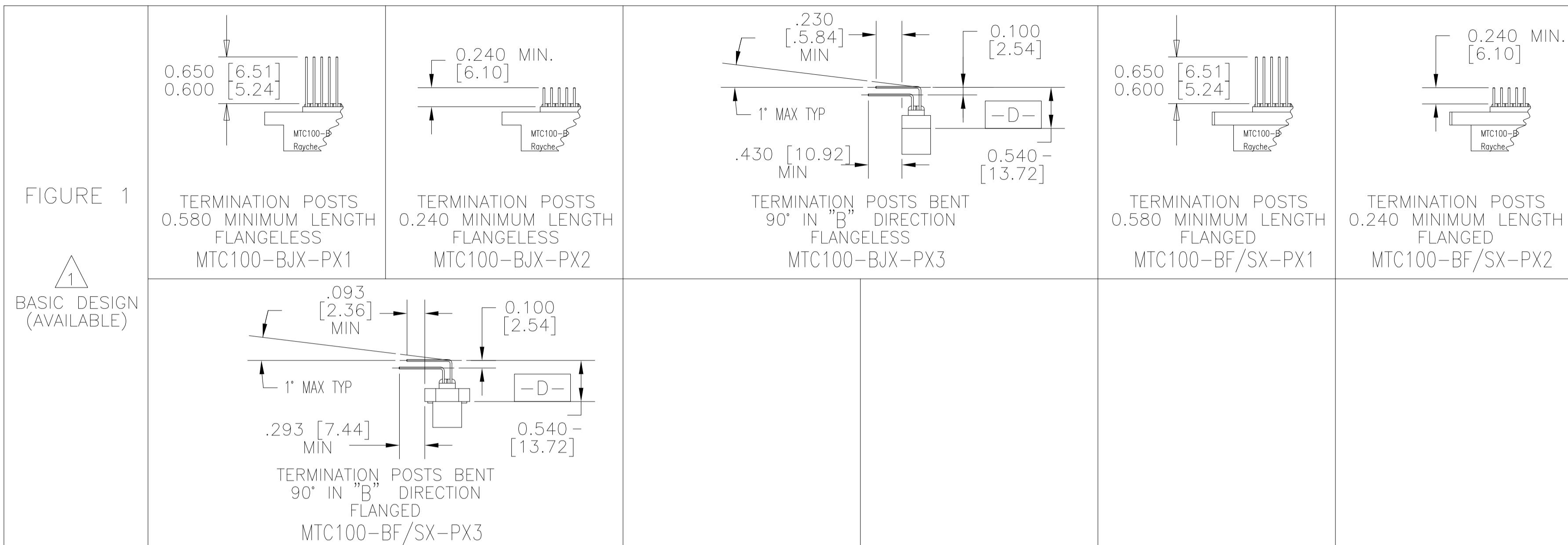


TABLE 1						
CONNECTOR SIZE	''A''	''B''	''C''	''X''	''Y''	''Z'' (MIN)
1 INCH FLANGELESS	1.750 [44.45]	2.00 [50.8]	X	1.750 [44.45]	1.520 [38.61]	0.400 [10.16]
	1.750 [44.45]	X	2.06 [52.3]	1.750 [44.45]	1.520 [38.61]	0.600 [15.24]
2 INCH FLANGELESS	2.750 [69.85]	3.00 [76.2]	X	2.750 [69.85]	2.520 [64.00]	0.400 [10.16]
	2.750 [69.85]	X	3.06 [77.7]	2.750 [69.85]	2.520 [64.00]	0.600 [15.24]

TABLE 2	
PANEL THICKNESS	NUMBER OF PANEL WASHERS FOR EACH FASTENER
0.031/0.036 [0.8]/[0.9]	2
0.062/0.067 [1.5]/[1.7]	1
0.93/0.097 [2.3]/[2.4]	0

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CUSTOMER DRAWING

SIZE	CAGE CODE:	DWG. NO.	REV.
C	06090	MTC100-BXX-PXX-XXX	J1
	CAD NAME: MTC100-BXX-PXX-XXX	SCALE: NONE	SHEET 2 OF 3

## SPECIFICATIONS:

## MATERIALS:

A. SHELL	ALUMINUM ALLOY PER ASTM B85 / B85M
B. ADAPTER SCREW	STAINLESS STEEL PER SAE-AMS-QQ-S-763, 300 SERIES
C. ADAPTER NUT	STAINLESS STEEL PER SAE-AMS-QQ-S-763, 300 SERIES
D. STANDARD PANEL GASKET EMI PANEL GASKET	SILICONE ELASTOMER PER MIL-STD-25988 CONDUCTIVE ELASTOMER PER MIL-DTL-83528 TYPE C, GRAY.
E. INSERT	HIGH GRADE POLARYLENE THERMOPLASTIC, MOLDED
F. INTERFACIAL SEAL	FLUOROSILICONE PER MIL-DTL-25988
G. KEYING PIN	HIGH GRADE POLARYLENE THERMOPLASTIC, MOLDED
H. PIN CONTACT	COPPER ALLOY PER ASTM B139 / B139M
I. PANEL WASHER	STAINLESS STEEL PER SAE-AMS-QQ-S-763 OR ASTM B240, 300 SERIES
J. KEYING PIN INSERT	HIGH GRADE POLARYLENE THERMOPLASTIC, MOLDED

## FINISH:

APPLIES TO NICKEL  
PLATED CONNECTORS  
(STANDARD PLATING)APPLIES TO CADMIUM  
PLATED CONNECTORS
 RECOMMENDED HOLE PATTERN AND SIZE  
FOR PRINTED CIRCUIT BOARDS

A. SHELL	NICKEL PLATED PER SAE-AMS-C-26074 CLASS 3, GRADE B
B. ADAPTER SCREW	PASSIVATED PER SAE-AMS-QQ-P-35
C. ADAPTER NUT	PASSIVATED PER SAE-AMS-QQ-P-35
D. PANEL WASHER	PASSIVATED PER SAE-AMS-QQ-P-35
E. PIN CONTACT	GOLD PLATED PER ASTM B488 TYPE 2, GRADE C

CADMİUM PLATED PER SAE-AMS-QQ-P-416 OVER NICKEL UNDERPLATE
CADMİUM PLATED PER SAE-AMS-QQ-P-416
CADMİUM PLATED PER SAE-AMS-QQ-P-416
CADMİUM PLATED PER SAE-AMS-QQ-P-416

## DESIGN AND CONSTRUCTION:

THE CONNECTORS SPECIFIED HEREIN ARE PANEL MOUNTED RECEPTACLES WITH FIXED (NON-REMOVABLE) PIN INSERTS AND CONTACTS. THE CONNECTOR IS WITHOUT PROVISIONS FOR CABLE CLAMPS OR TERMINATION SEALS.

## PERFORMANCE:

THESE CONNECTORS MEET THE APPLICABLE REQUIREMENTS OF TE CONNECTIVITY SPECIFICATION C-6111.

PERFORMANCE; SHELL BE IN ACCORDANCE WITH C-6111, EXCEPT AS FOLLOWS

HUMIDITY  
ALTITUDE IMMERSION  
ALTITUDE - LOW TEMPERATURE  
FLUID IMMERSION

THE CONNECTOR TERMINATION END  
MUST BE SUITABLY PROTECTED  
FOR TESTING OR APPLICATION IN  
ANY OF THESE ENVIRONMENTS.

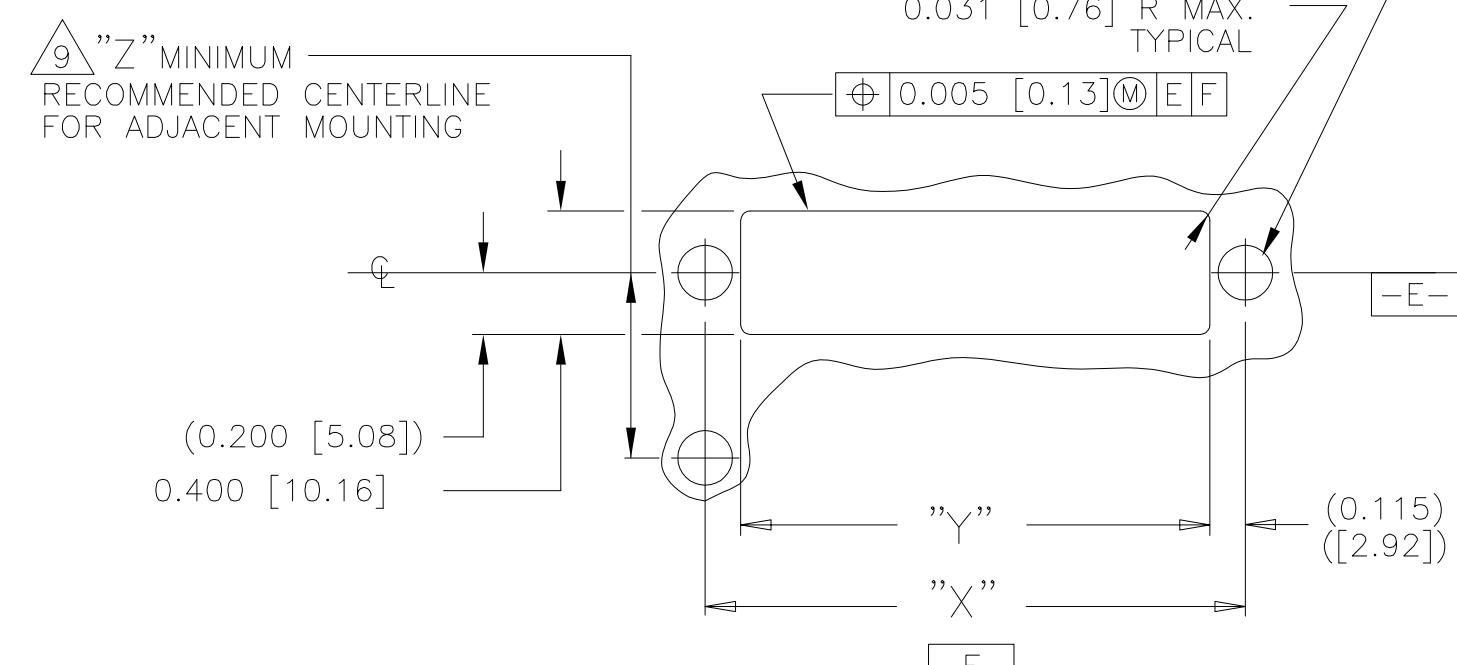
RECOMMENDED PANEL CUT-OUT  6

FIGURE 2

TABLE 3	
PART NUMBER	WEIGHT MAXIMUM GRAMS
MTC100-BF1-P32	23.0
MTC100-BF2-P32	33.2

THE FOLLOWING TABLE CONSISTS OF WEIGHTS  
FOR THESE SPECIFIC PART NUMBERS

 11

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SIZE	CAGE CODE:	DWG. NO.	REV
C	06090	MTC100-BXX-PXX-XXX	J1
CAD NAME		SCALE: NONE	SHEET 3 OF 3

CUSTOMER DRAWING

# Mouser Electronics

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