

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	D	LOGO CHANGE	10APR2013	RL	KZ

1. MATERIALS:
HOUSING: BLACK, THERMOPLASTIC, RATED UL 94V-0
SHIELD: COPPER ALLOY, WITH NICKEL PLATE
SHELL: CARBON STEEL,
CONTACTS: PHOSPHER BRONZE
INSERTS: THREADED, STAINLESS STEEL
CONTACT PLATING: 0.05µm MIN GOLD OVER 0.76µm MIN PALLADIUM-NICKEL,
AT MATING INTERFACE CONTACT AREA
2. MAGNETICS
-APPLICATION: 10/100/1000 BASE-T
-IMPEDANCE: 100 OHMS
-TURNS RATIO (CHIP:CABLE): 1:1 ALL FOUR PAIRS
-OPEN CIRCUIT INDUCTANCE (OCL): 350uH MIN @100kHz, 0.1VRMS,
8mADC BIAS FROM 0°C TO 70°C, ALL FOUR PAIRS
-ALL FOUR PAIRS BI-DIRECTIONAL
-PERFORMANCE @ 25°C:
 INSERTION LOSS (IL): 1.1dB MAX FROM 0.5MHz TO 100MHz
 RETURN LOSS (RL): 18dB MIN FROM 0.5MHz TO 40MHz
 12-20LOG(f/80)dB MIN FROM 40.1MHz TO 100MHz
CROSSTALK ATTENUATION: 35dB MIN FROM 0.5MHz TO 40MHz
 33-20LOG(f/50)dB MIN FROM 40.1MHz TO 100MHz
COMMON MODE REJECTION RATIO (CMRR): 30dB MIN FROM 0.5MHz TO 100MHz
-ISOLATION VOLTAGE: COMPLIES WITH IEEE802.3 2002, PARA 40.6.1.1, ITEM b.

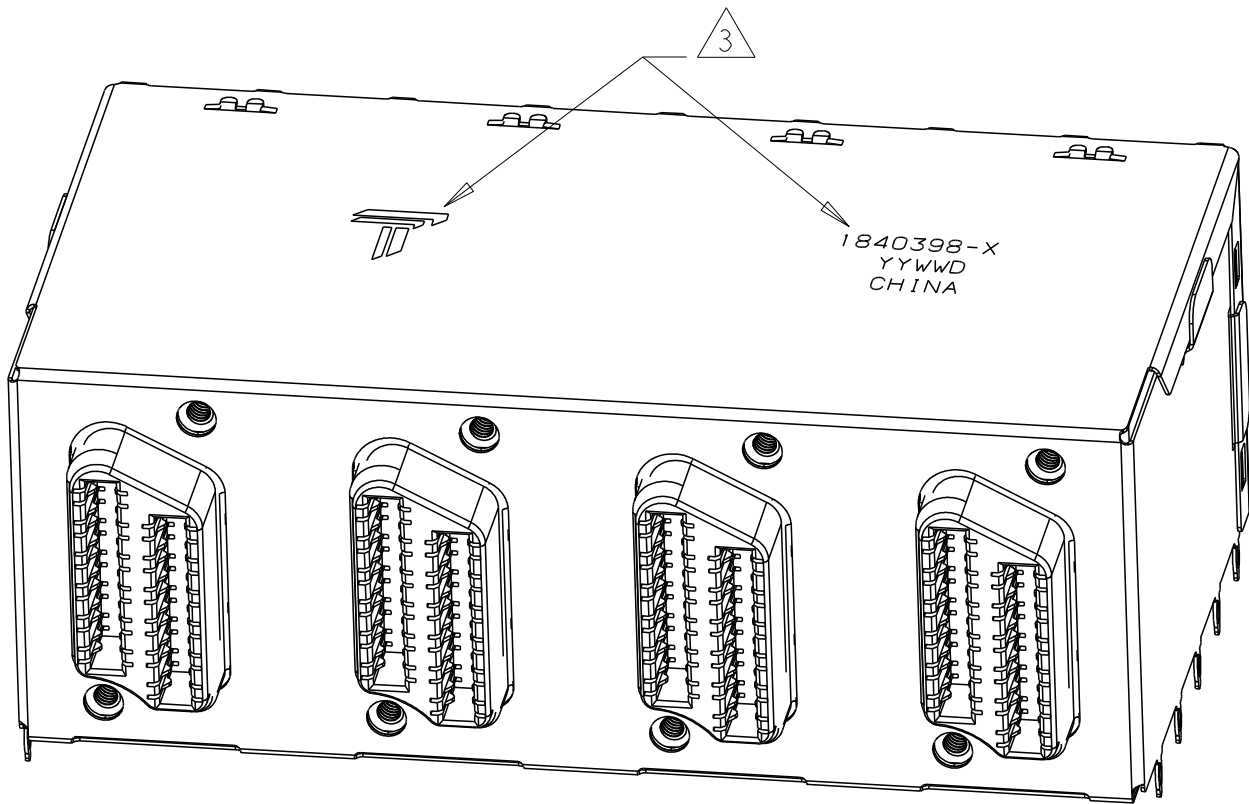
△ TRP CONNECTOR LOGO, PART NUMBER, DATE CODE AND COUNTRY
OF ORIGIN, SHOWN IN APPROXIMATE LOCATION. DATE CODE: YYWWD "YY" IS
YEAR, "WW" IS WORK WEEK, "D" IS DAY OF WEEK, WITH SUNDAY=1

4. RECOMMENDED PCB THICKNESS 1.5mm (.062")
5. SCREW LOCKS ARE FOR USE WITH JACKSCREWS
TO PROVIDE CABLE RETENTION
6. RECOMMENDED TORQUE FOR SCREW LOCK IS 4 IN-LB

△ SCREW LOCK DESIGNATION:
SCREW LOCKS MUST BE ORDERED SEPARATELY FROM TABLE BELOW,
SCREW LOCKS PACKAGED IN QUANTITIES OF 960 PIECES

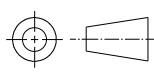
>1mm-<2mm	1339381-2
>0mm-<1mm	1339381-1
PANEL THICKNESS	SCREW LOCK PART NUMBER

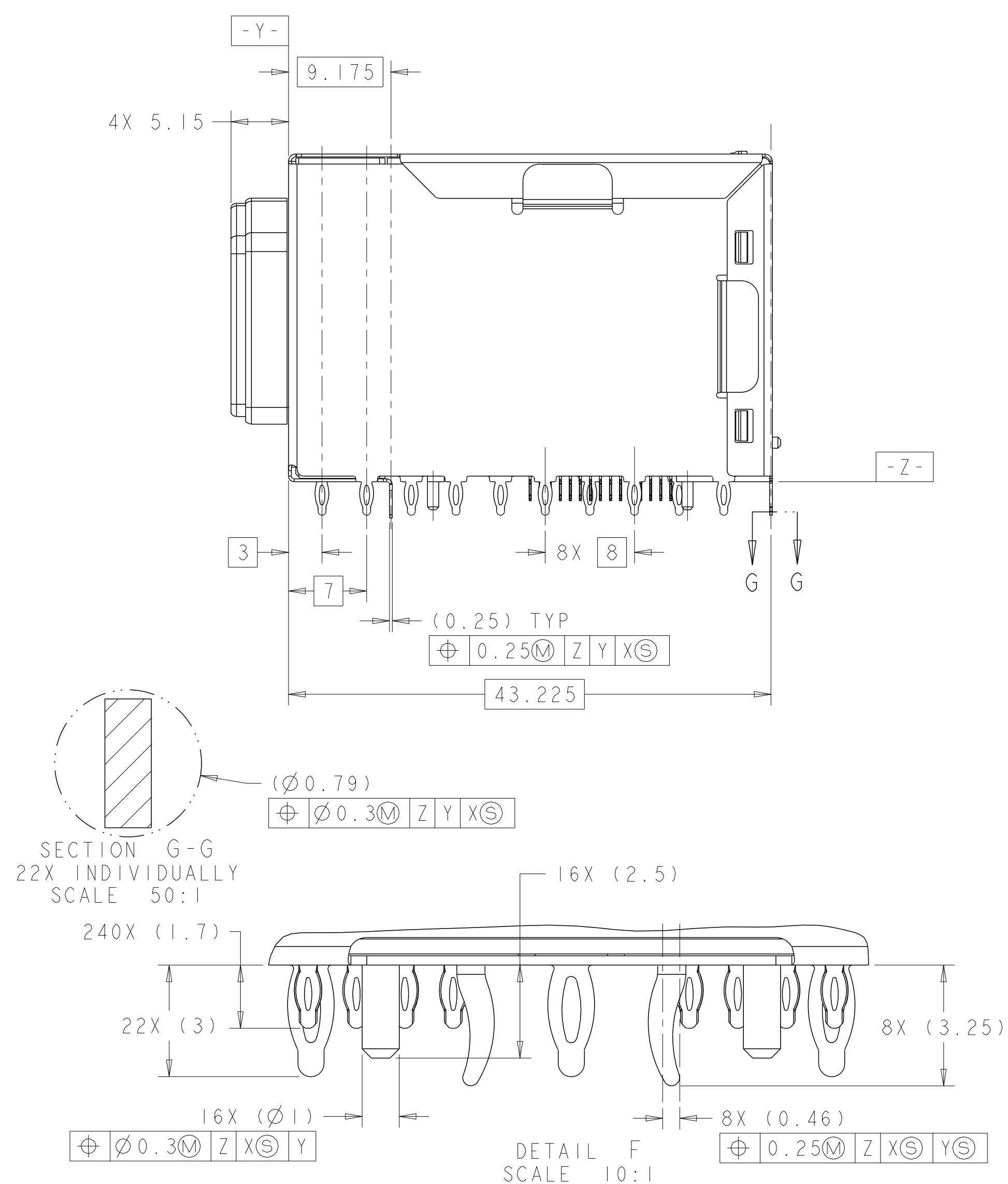
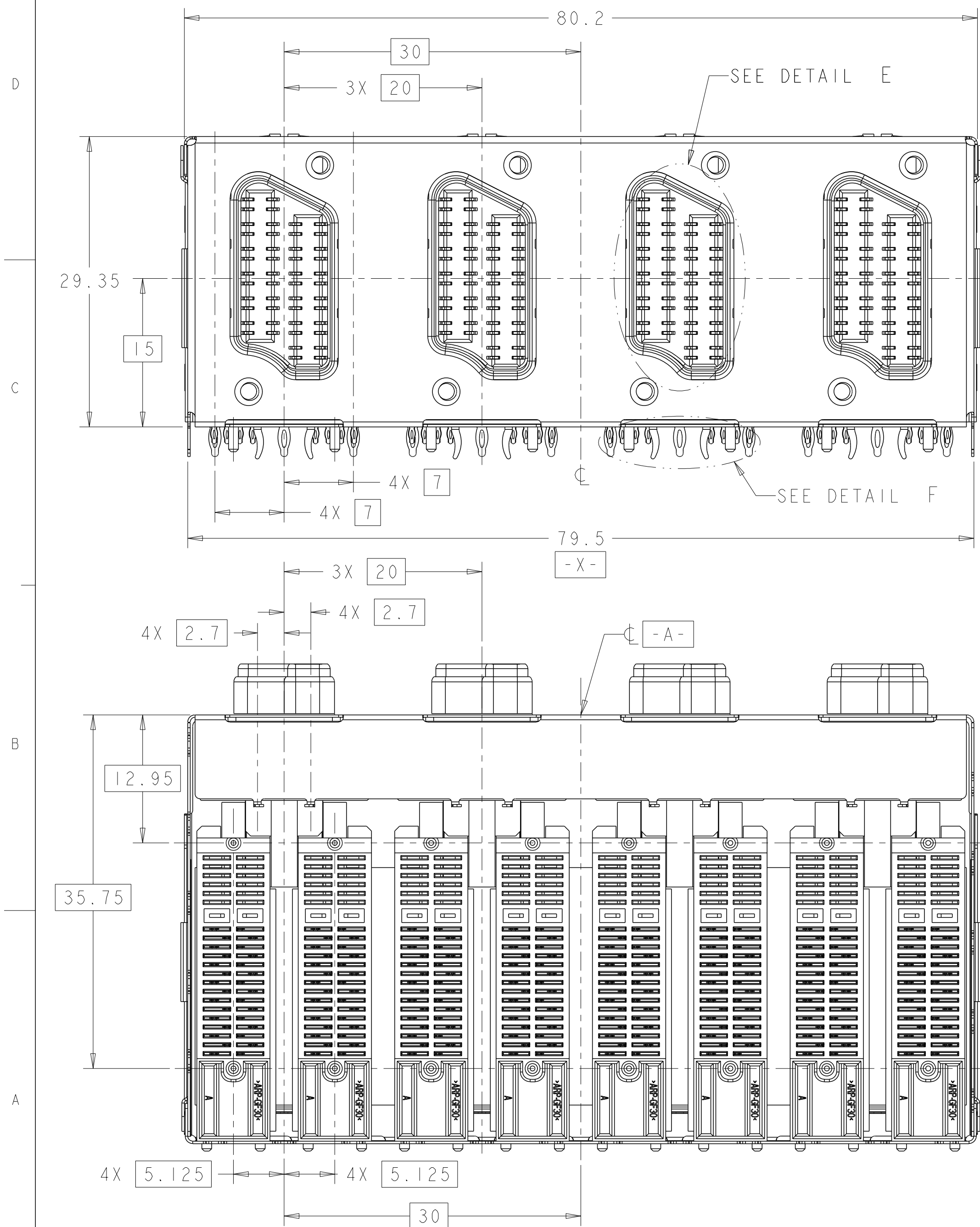
8. OPERATING TEMPERATURE: FROM 0°C TO 70°C



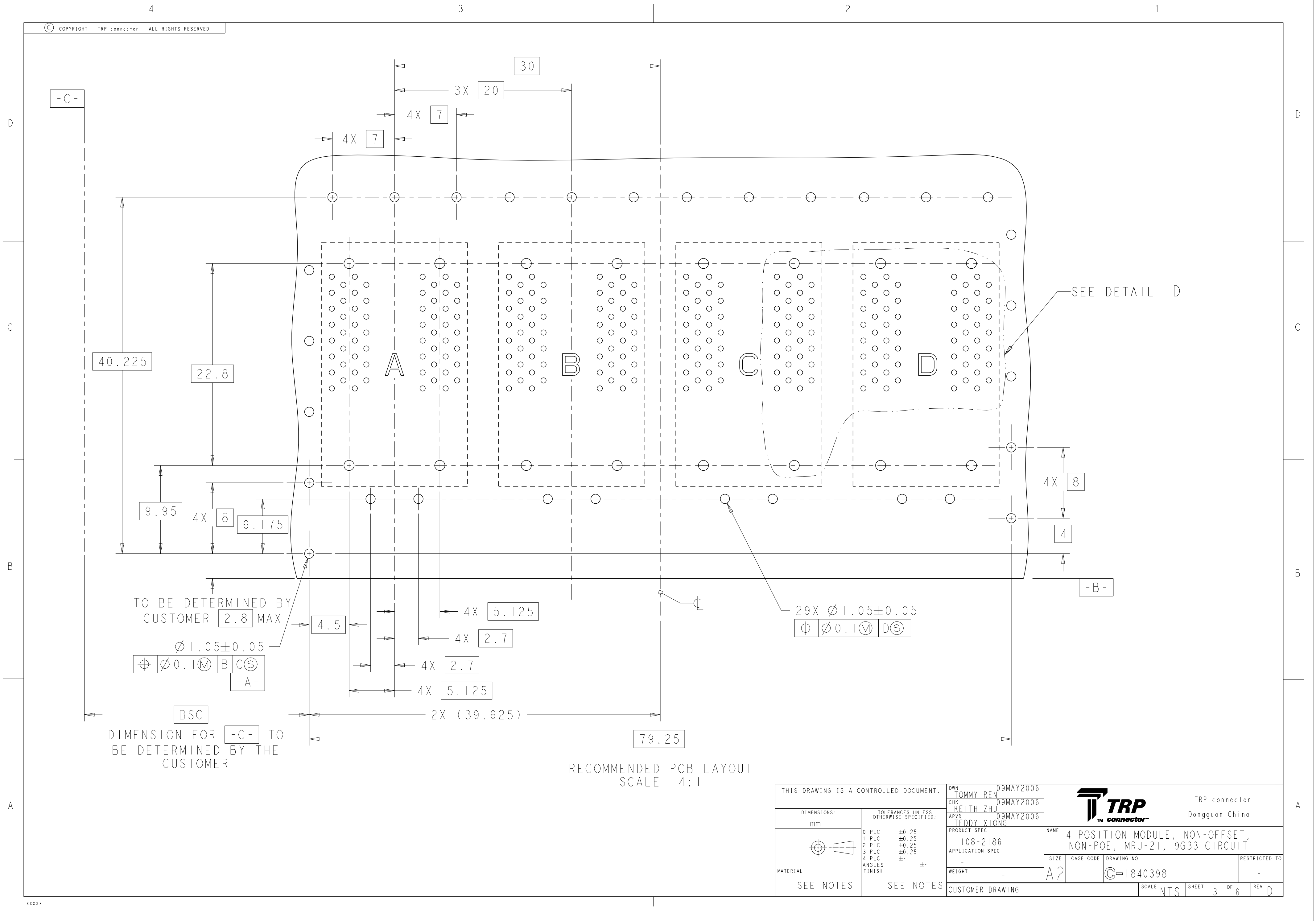
1840398-1
SCALE 2:1

1840398-1
PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN TOMMY REN 09MAY2006	 TRP connector Dongguan China		
DIMENSIONS: mm		CHK KEITH ZHU 09MAY2006			
		APVD TEDDY XIONG 09MAY2006			
		PRODUCT SPEC 108-2186			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APPLICATION SPEC -	NAME 4 POSITION MODULE, NON-OFFSET, NON-POE, MRJ-21, 9G33 CIRCUIT		
MATERIAL		WEIGHT -	SIZE A2	CAGE CODE C=1840398	RESTRICTED TO -
SEE NOTES		CUSTOMER DRAWING		SCALE NTS	SHEET 1 OF 6
SEE NOTES				REV D	



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		CHK KEITH ZHU 09MAY2006			
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD TEDDY XIONG 09MAY2006	
		1 PLC ±0.25		NAME 4 POSITION MODULE, NON-OFFSET, NON-POE, MRJ-21, 9G33 CIRCUIT	
		2 PLC ±0.25			
		1 PLC ±0.25		PRODUCT SPEC 108-2186	
		3 PLC ±0.25			
		4 PLC ±0.25		APPLICATION SPEC -	
		ANGLES ±° ±°			
MATERIAL		FINISH		SIZE A2	
SEE NOTES		SEE NOTES		CAGE CODE C=1840398	
		WEIGHT -		DRAWING NO -	
		CUSTOMER DRAWING		RESTRICTED -	
				SCALE NTS	
				SHEET 2	
				OF 6	
				REV D	



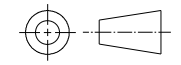
TO BE DETERMINED BY CUSTOMER 2.8 MAX

Ø 1.05±0.05
 Ø 0.1M B C S
 -A-

BSC

DIMENSION FOR -C- TO BE DETERMINED BY THE CUSTOMER

RECOMMENDED PCB LAYOUT
 SCALE 4:1

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		APVD TEDDY XIONG 09MAY2006		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC 108-2186		
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MATERIAL SEE NOTES		WEIGHT -	SIZE A2	CAGE CODE C=1840398
SEE NOTES		CUSTOMER DRAWING		SCALE NTS
		SHEET 3 OF 6		REV D

30X $\varnothing 0.6 \pm 0.05$
 $\varnothing 0.08$ (M) (E) (S) (F) (S)

- F -

(1.5)

(22.8)

7X 1.8

14X 0.9

8.7

2X $\varnothing 1.15 \pm 0.05$

$\varnothing 0.1$ (M) (A) (S)

- E -

2X 0.65

2X 1.95

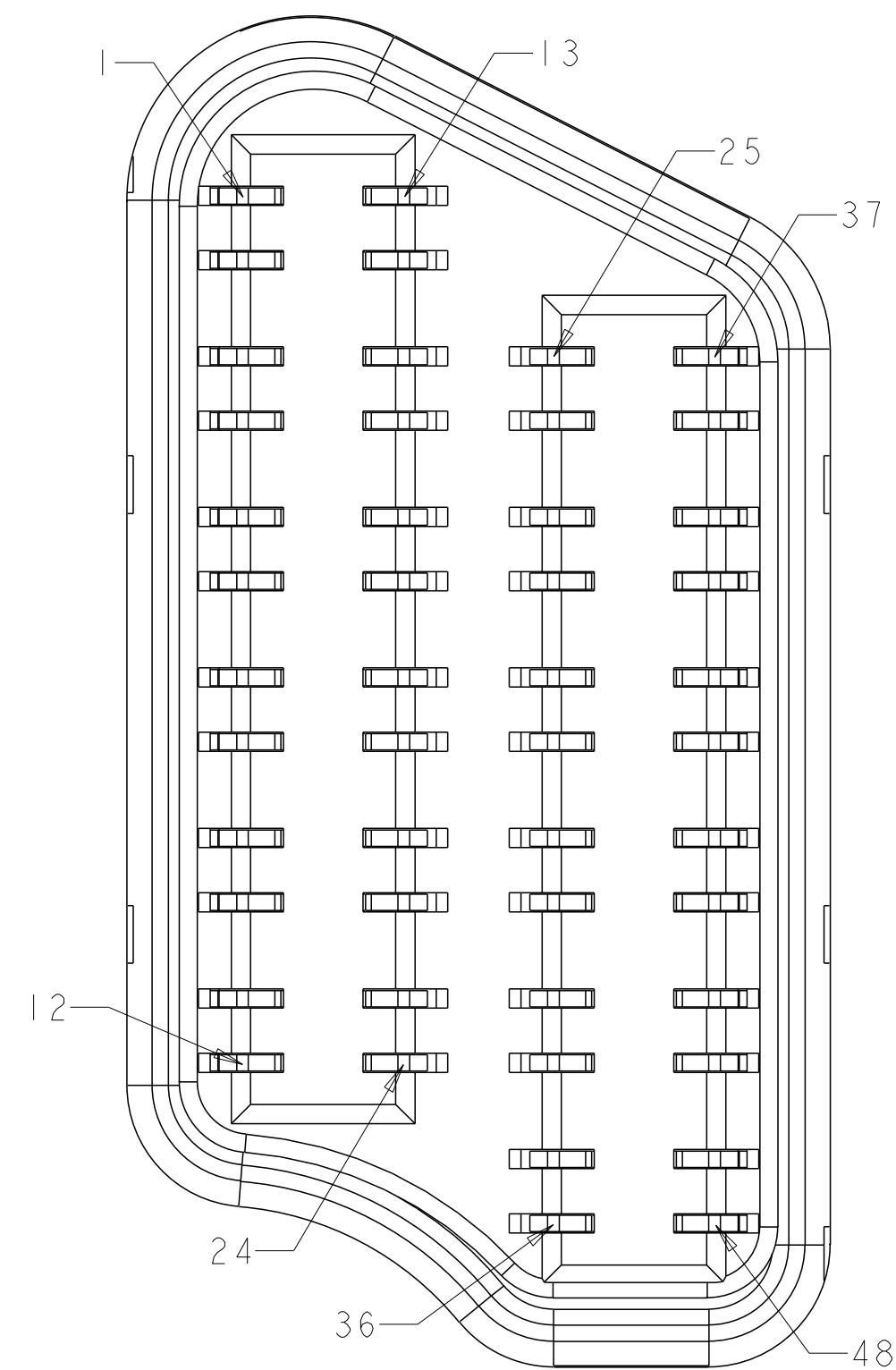
(10.25)

1 ○ 16
2 ○ 17
3 ○ 18
4 ○ 19
5 ○ 20
6 ○ 21
7 ○ 22
8 ○ 23
9 ○ 24
10 ○ 25
11 ○ 26
12 ○ 27
13 ○ 28
14 ○ 29
15 ○ 30

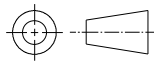
31 ○ 46
32 ○ 47
33 ○ 48
34 ○ 49
35 ○ 50
36 ○ 51
37 ○ 52
38 ○ 53
39 ○ 54
40 ○ 55
41 ○ 56
42 ○ 57
43 ○ 58
44 ○ 59
45 ○ 60

HOST BOARD PIN IDENTIFIERS

DETAIL D
TYPICAL
SCALE 10:1

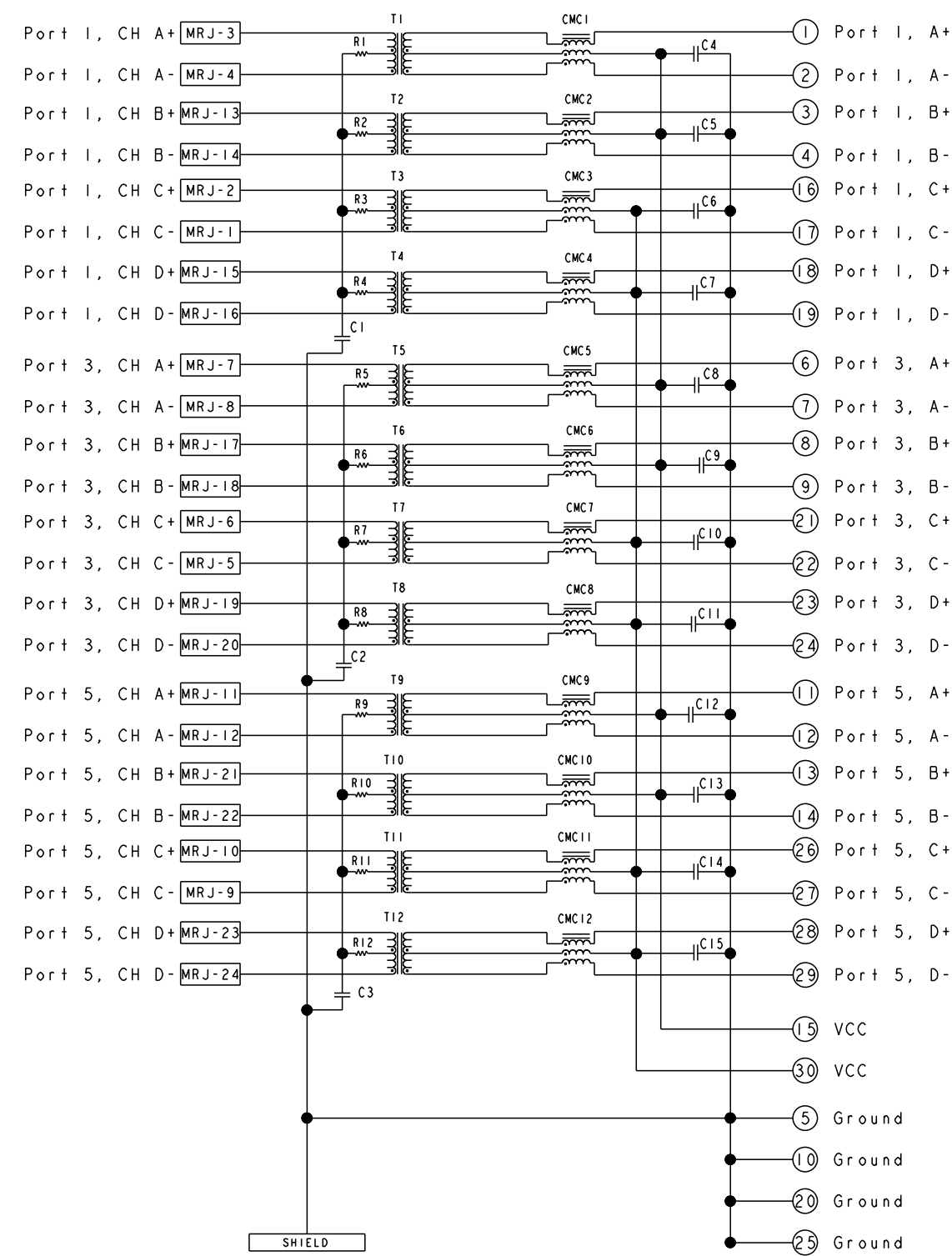


DETAIL E
MRJ INTERFACE PIN DESIGNATIONS
4X INDIVIDUALLY
SCALE 10:1

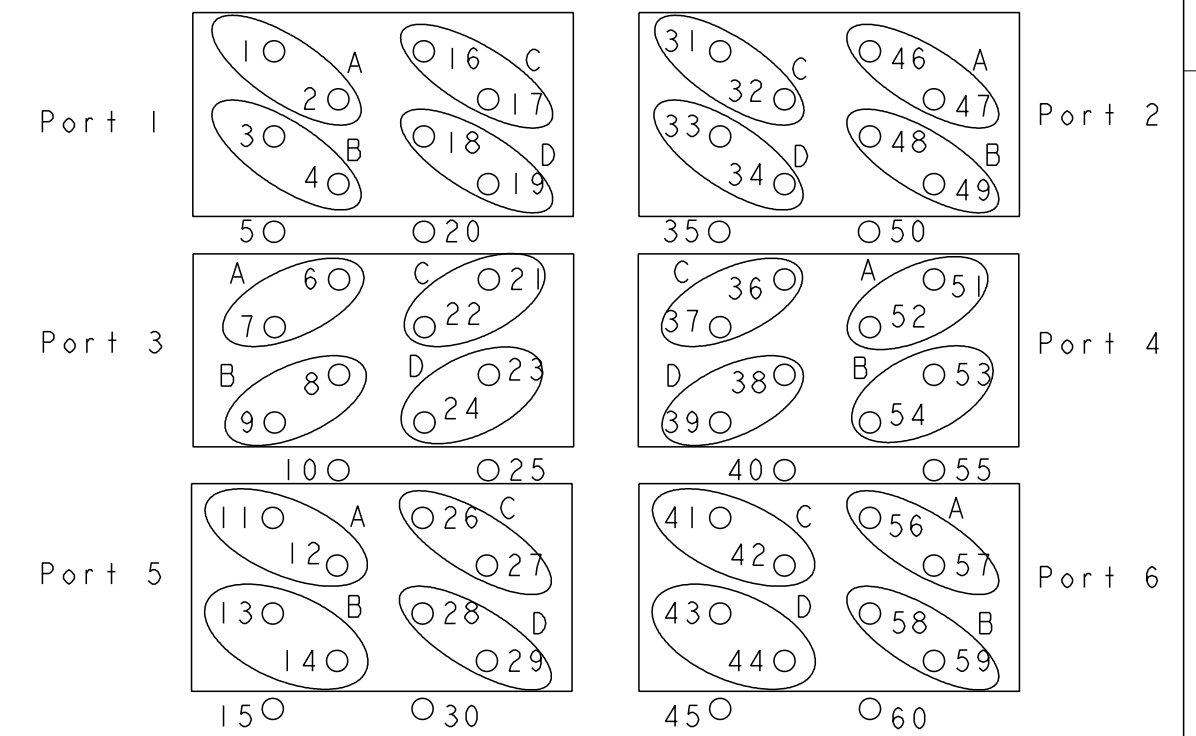
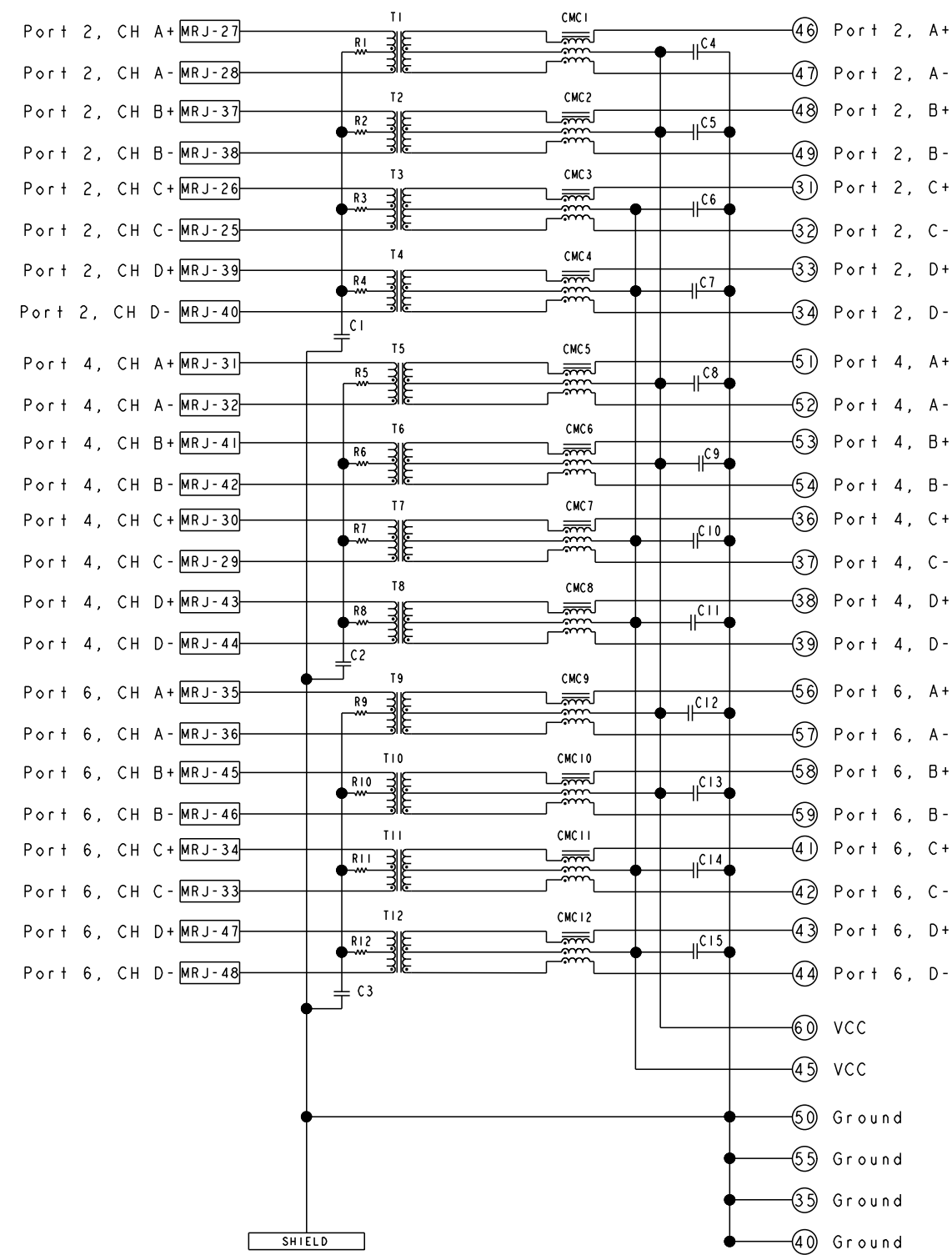
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MATERIAL SEE NOTES		WEIGHT -	SCALE NTS	RESTRICTED TO -
SEE NOTES		CUSTOMER DRAWING	SHEET 4	REV D

9G33 GIGABIT CIRCUIT

LEFT BOARD

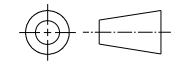


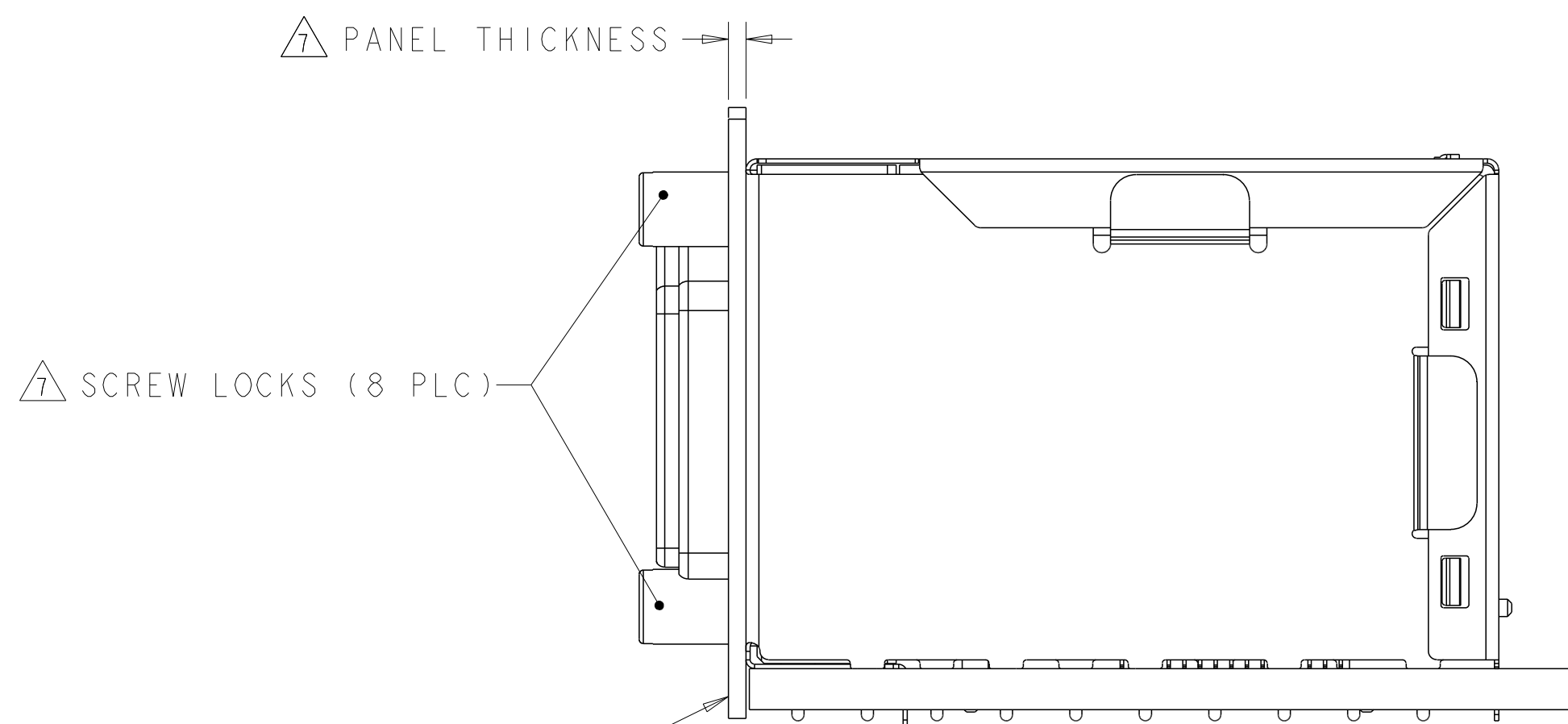
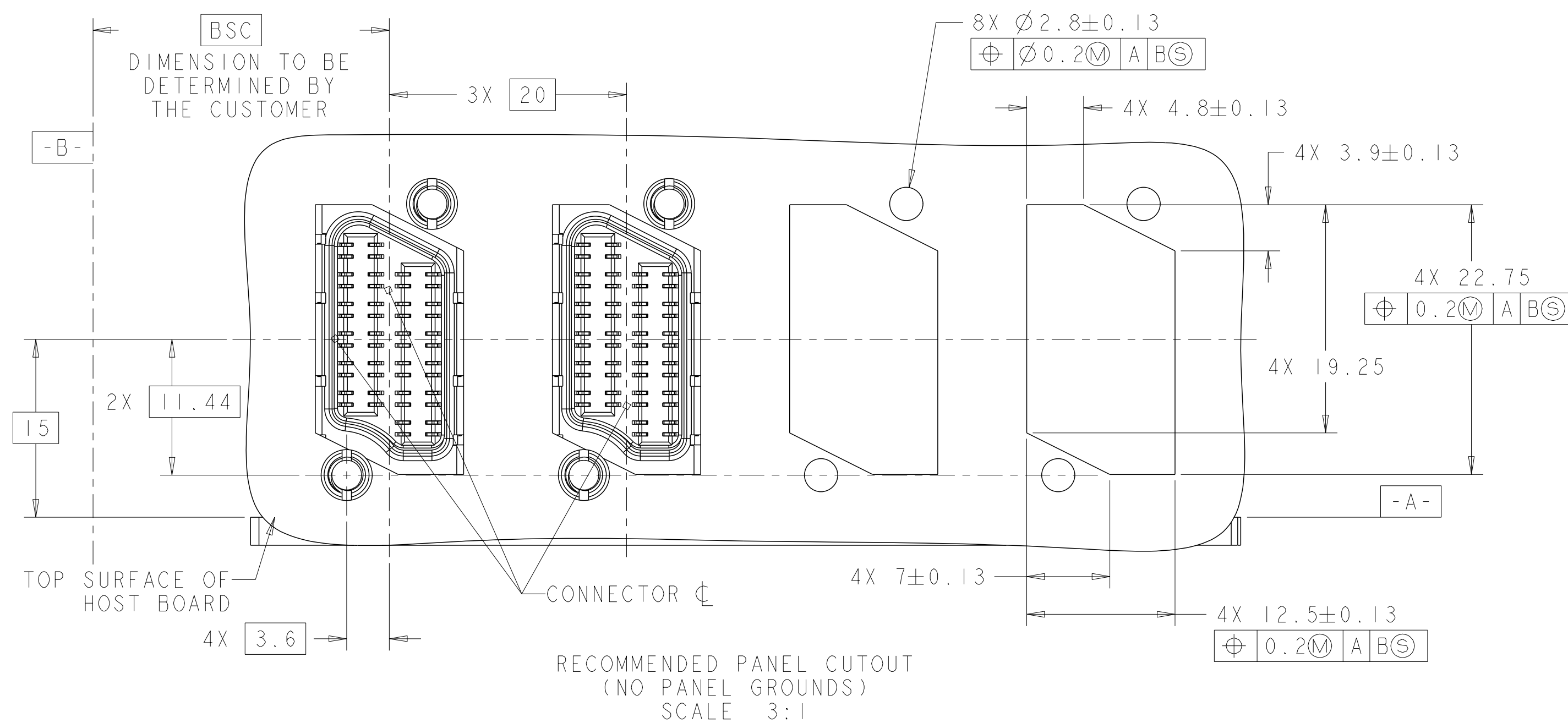
RIGHT BOARD



FOOTPRINT

C1-C3 = 1000pF, 2kV, CAPACITOR
C4-C15 = 10 nF, 50V, CAPACITOR
R1-R12 = 75 ohms, RESISTOR

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MATERIAL SEE NOTES		WEIGHT -	DRAWING NO C=1840398	
CUSTOMER DRAWING		SCALE NTS	SHEET 5	OF 6
			REV D	



PANEL SHOULD BE MATED TO THE FRONT FACE OF THE HOST BOARD AND SECURE THE CONNECTOR TO THE PANEL WITH SCREW LOCKS TO PROVIDE MAXIMUM STRAIN RELIEF

1840398-1
SHOWN WITH SCREW LOCKS
SCALE 3:1

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DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±0.25 1 PLC ±0.25 2 PLC ±0.25 3 PLC ±0.25 4 PLC ± ANGLES ±°		NAME 4 POSITION MODULE, NON-OFFSET, NON-POE, MRJ-21, 9G33 CIRCUIT	
		APPLICATION SPEC 108-2186		SIZE CAGE CODE DRAWING NO RESTRICTED TO A2 - C=1840398 -	
MATERIAL SEE NOTES		WEIGHT -		CUSTOMER DRAWING	
SEE NOTES		SCALE NTS		SHEET 6 OF 6 REV D	