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PRELIMINARY

RoHS
2002/95/EC



LED 1 & 3 POLARITY			LED 2 & 4 POLARITY		
PIN 11	PIN 12	COLOR	PIN 13	PIN 14	COLOR
+	-	YELLOW	+	-	YELLOW
-	+	GREEN	-	+	GREEN

ELECTRICAL CHARACTERISTICS @ 25°C

URNS RATIO

TP1	1CT : 1CT ±2%
TP2	1CT : 1CT ±2%
TP3	1CT : 1CT ±2%
TP4	1CT : 1CT ±2%

OCL @ 100kHz/100mVRMS

8mA DC BIAS	350μH MIN.
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INS. LOSS

0.1MHz TO 1MHz	-1.1 dB MAX
1MHz TO 65MHz	-0.5 dB MAX
65MHz TO 100MHz	-0.8 dB MAX
100MHz TO 125MHz	-1.2 dB MAX

RET. LOSS (MIN)

0.5MHz-40MHz	-18 dB
40MHz-100MHz	-12+20LOG(f/80MHz) dB

CM TO CM REJ

100kHz - 100MHz	-30 dB MIN
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CM TO DM REJ

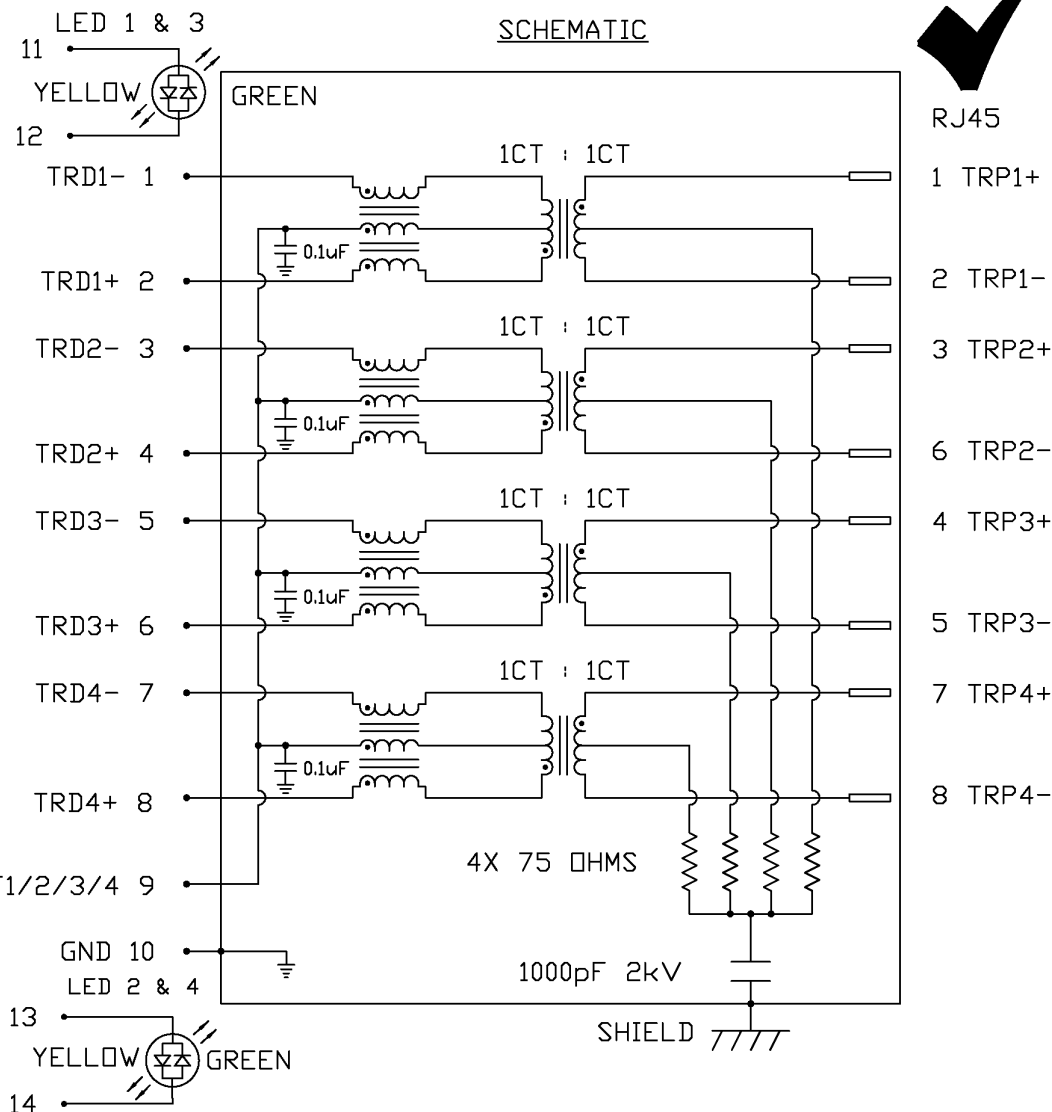
100kHz - 100MHz	-35 dB MIN
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HIPOT (Isolation Voltage):

LED 1,LED 2,LED 3 & LED 4 1500 Vrms or 2250VDC

VF (FORWARD VOLTAGE)

IF=20mA	GREEN	2.2V TYP.
	YELLOW	2.1V TYP.
λD (DOMINANT WAVELENGTH)	IF=20mA	GREEN 565nm TYP.
		YELLOW 590nm TYP.



ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE
CHUNG	11-07-06	2X8 gigabit MagJack® (8 Cores)	C850-2C8R-54	.X	UNIT : INCH [mm] REV. : PB
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A SIZE : A4
DE	11-07-06		C8502C8R54PB.DWG	.XXX	PAGE : 2

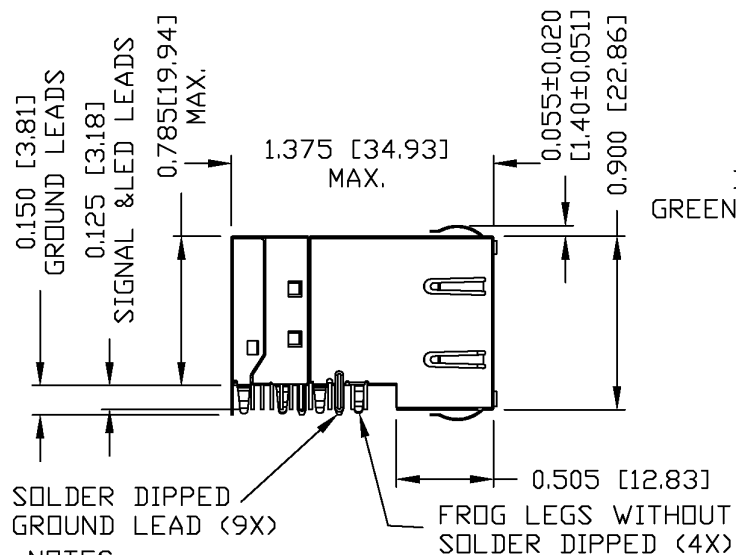
bel
COMPONENTS FOR A
CONNECTED
PLANET

DC002(2)032305

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NOTES:

PLASTIC HOUSING: THERMOPLASTIC PBT
FLAMMABILITY RATING UL 94V-0
CONTACT PLATING: 30 MICRO-INCH HARD GOLD PLATING
OUTPUT PINS: TIN-COATED COPPER WIRE, DIA 0.018 INCH.
METAL SHIELD: NICKEL PLATED COPPER ALLOY.
(ALL GROUND LEADS ARE SOLDER DIPPED)
FROG LEGS ARE FOR PCB RETENTION FORCE ONLY AND NOT FOR GROUNDING PURPOSE

1. JACK CAVITY CONFORMS TO FCC RULES AND REGULATIONS, PART 68 SUBPART F.

2. MARK PART WITH MFG LOGO, MFG NAME, PART NUMBER, AND DATE CODE.

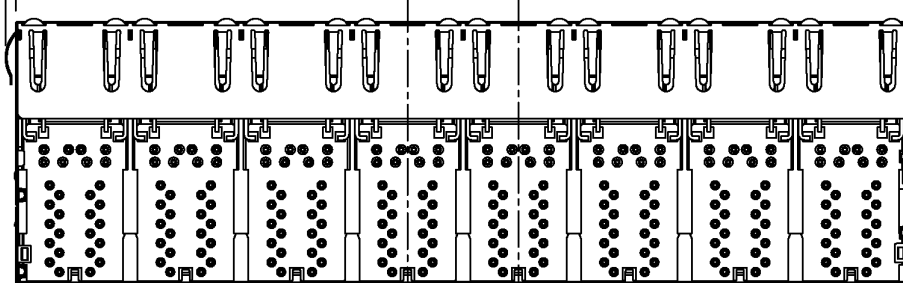
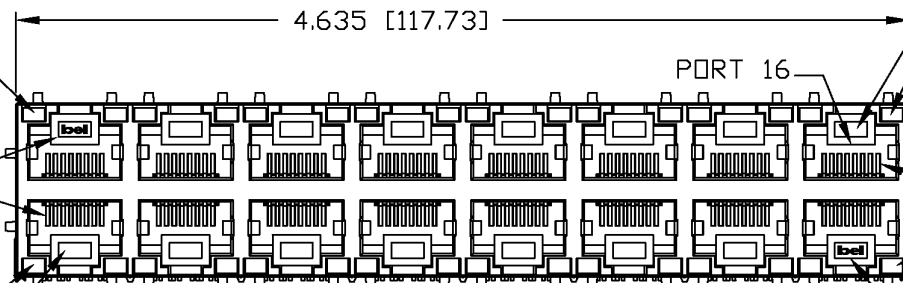
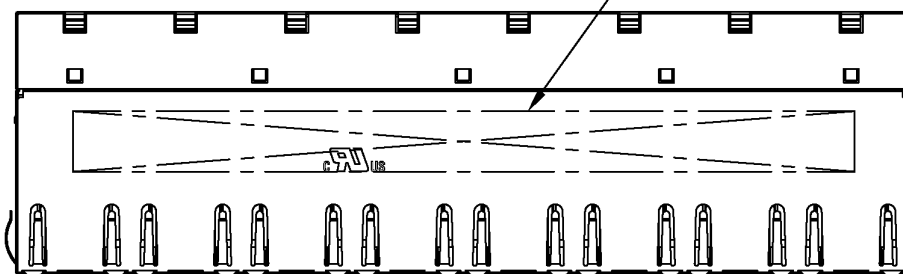
UL US UL RECOGNIZED - FILE #E196366 AND E169987.

RoHS COMPLIANCE, PER EU DIRECTIVE 2002/95/EC.

LED 2
BI-COLOR
GREEN/YELLOW

PORT 2
RJ45 1

LED 3
BI-COLOR
GREEN/
YELLOW
PORT 1



LED 1
GREEN
BI-COLOR
GREEN/
YELLOW

RJ45 1

LED 4
BI-COLOR
GREEN
/YELLOW

PORT 15

ORIGINATED BY	DATE	TITLE	PART NO. / DRAWING NO.	STANDARD DIM. TOL. IN INCH	[] METRIC DIM. AS REFERENCE	
BILL	11-07-06	2X8 gigabit MagJack® (8 Cores)	C850-2C8R-54	.X	UNIT : INCH [mm]	REV. : PB
DRAWN BY	DATE		FILE NAME	.XX	SCALE : N/A	SIZE : A4
CHRIS	11-07-06		C8502C8R54PB.DWG	.XXX	±0.010	PAGE : 3



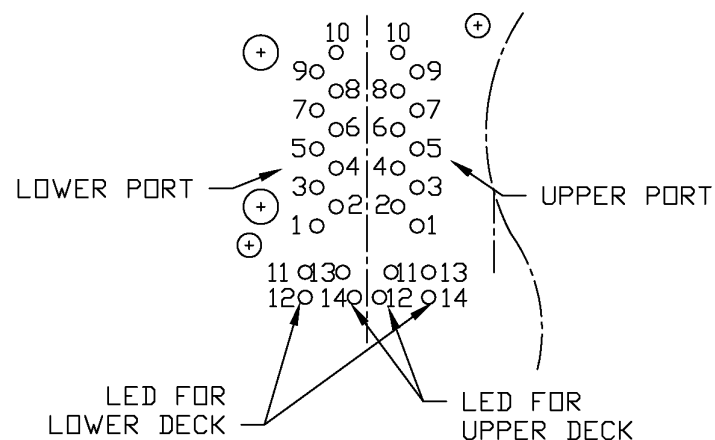
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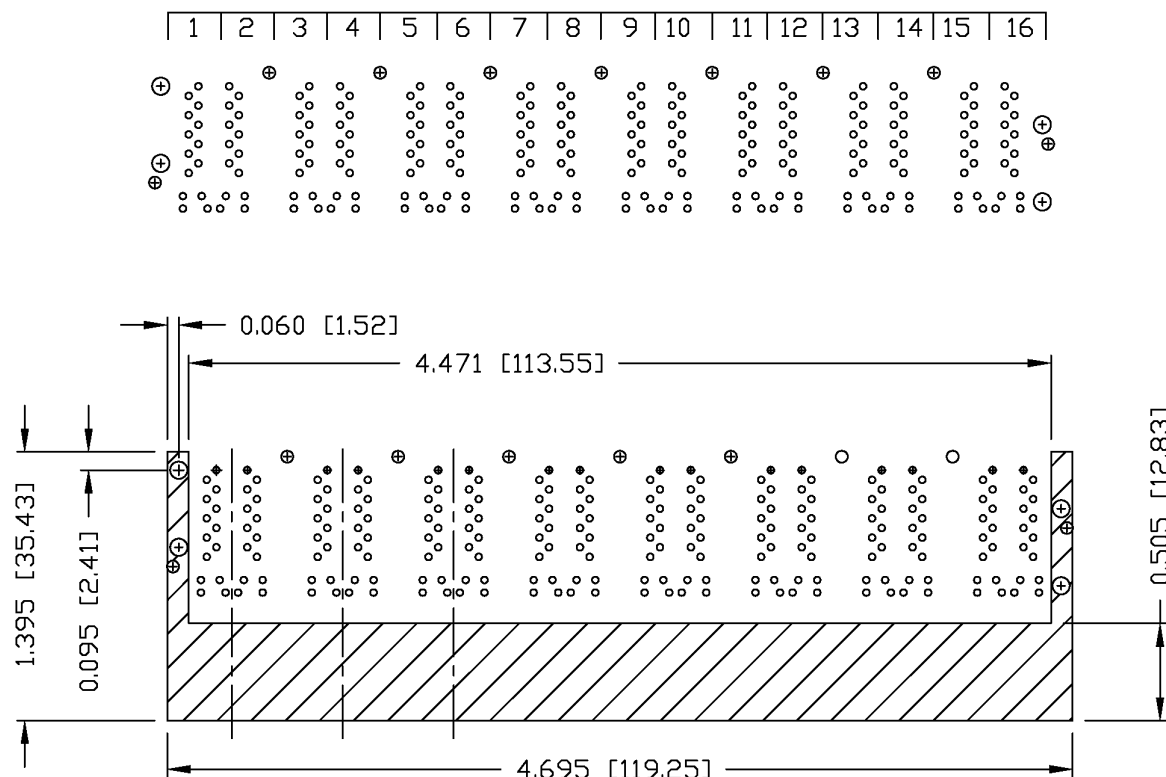


PORT ASSIGNMENT
 (COMPONENT SIDE VIEW)







PIN-OUT INFORMATION
 (COMPONENT SIDE VIEW)

10	GND
9	TRCT1/2/3/4
8	TRD 4+
7	TRD 4-
6	TRD 3+
5	TRD 3-
4	TRD 2+
3	TRD 2-
2	TRD 1+
1	TRD 1-

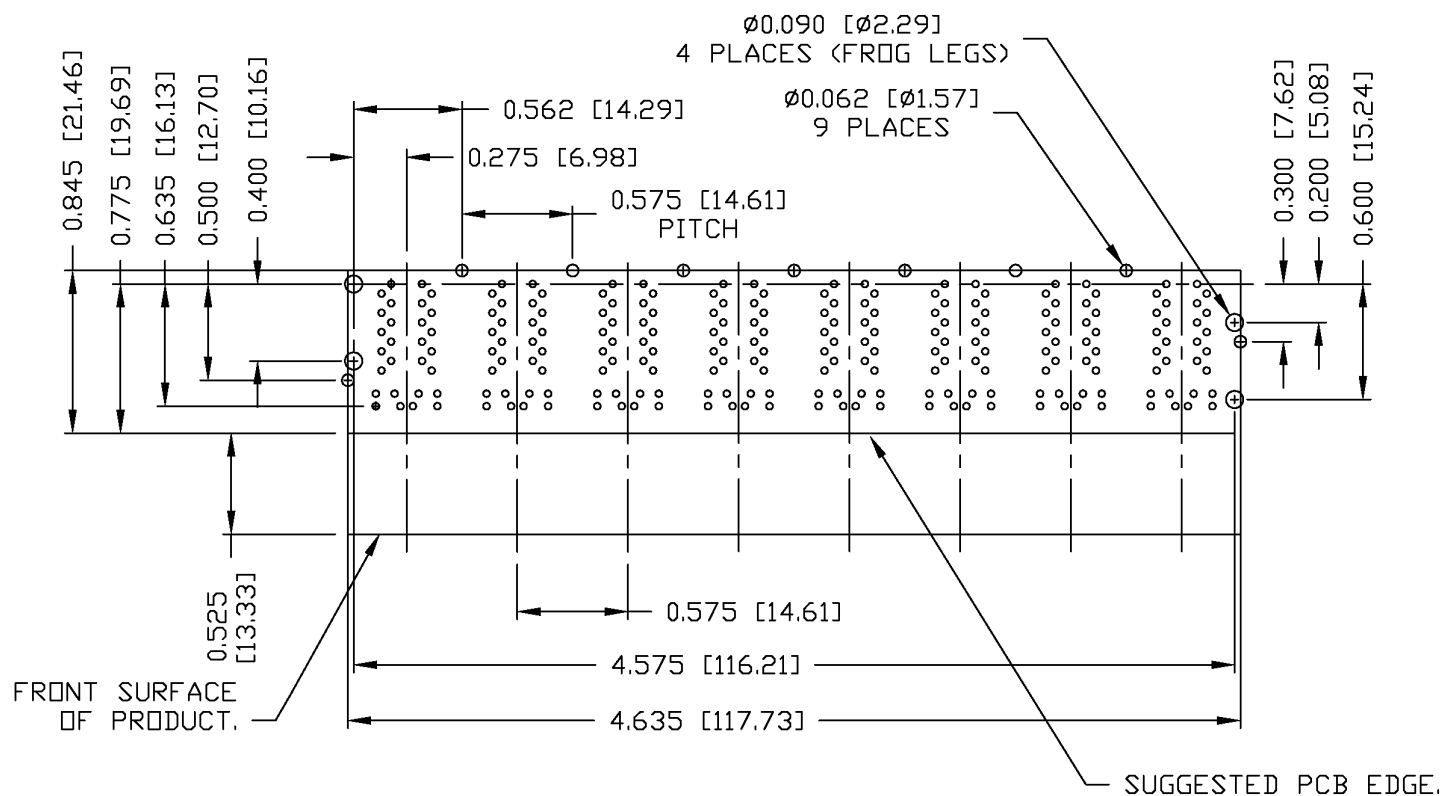


THE SHADED AREA ON THE CUSTOMER BOARD ARE
 RECOMMENDED TO BE CLEAR OFF ANY VIA HOLE OR
 COMPONENT PAD.

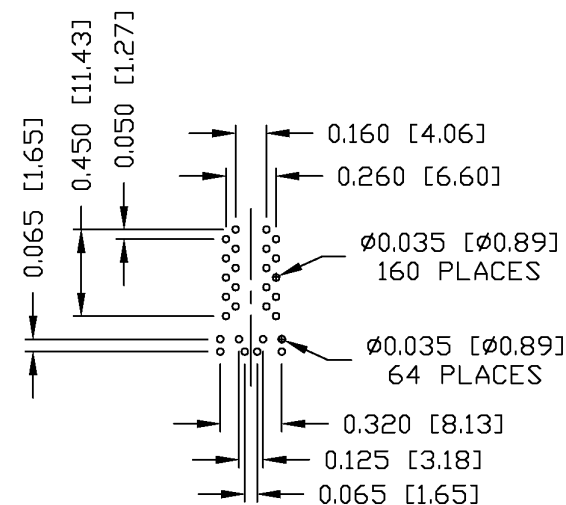
ORIGINATED BY	DATE	TITLE 2X8 gigabit MagJack® (8 Cores)	PART NO. / DRAWING NO. C850-2C8R-54	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		 COMPONENTS FOR A CONNECTED PLANET
BILL	11-07-06		FILE NAME C8502C8R54PB.DWG	.X		UNIT : INCH [mm]	REV. : PB	
DRAWN BY	DATE			.XX		SCALE : N/A	SIZE : A4	
CHRIS	11-07-06			.XXX		±0.004	 - 	

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(COMPONENT SIDE VIEW)



SUGGESTED FOOTPRINT

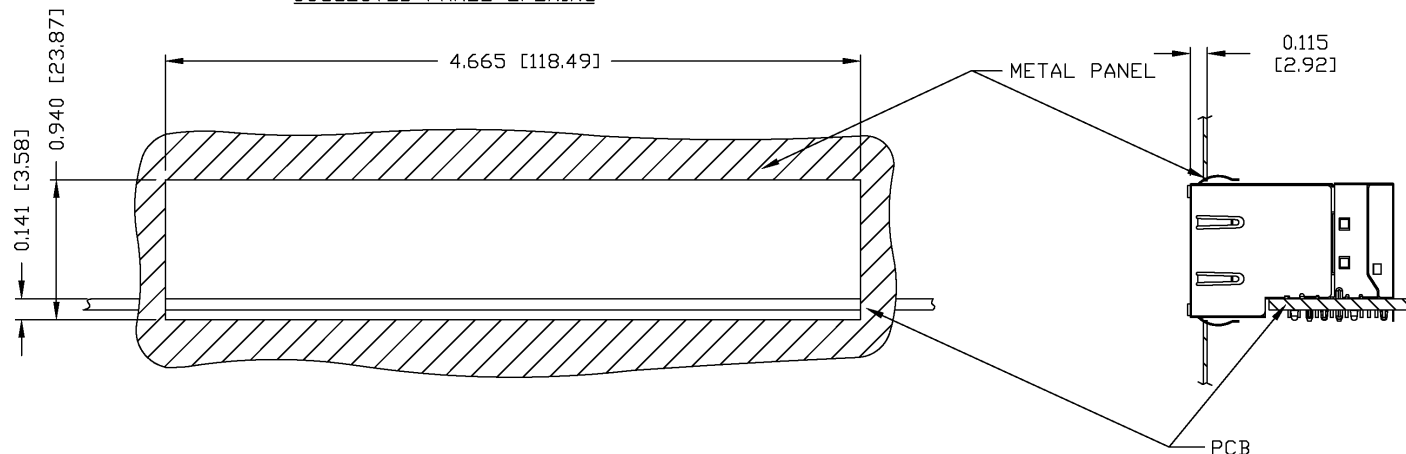
ORIGINATED BY BILL	DATE 11-07-06	TITLE 2X8 gigabit MagJack® (8 Cores)	PART NO. / DRAWING NO. C850-2C8R-54	STANDARD DIM. TOL. IN INCH		[] METRIC DIM. AS REFERENCE		<div>bel</div> <div>COMPONENTS FOR A CONNECTED PLANET™</div>
DRAWN BY CHRIS	DATE 11-07-06		FILE NAME C8502C8R54PB.DWG	.X		UNIT : INCH [mm]	REV. : PB	
				.XX		SCALE : N/A	SIZE : A4	
				.XXX	±0.004		PAGE : 5	



PRELIMINARY



SUGGESTED PANEL OPENING



NOTE:

THE DISTANCE OF PANEL INSIDE SURFACE RELATIVE TO FRONT SURFACE OF PART IS ONLY A SUGGESTION.
IN CASE THIS DISTANCE IS DIFFERENT, THE REQUIRED PANEL OPENING DIMENSIONS CHANGE ACCORDINGLY.

PACKING INFORMATION

PACKING TRAY : 0200-9999-K7 (TOP)

0200-9999-K8 (BOTTOM)

PACKING QUANTITY : 12 PCS FINISHED GOODS PER TRAY.

6 TRAYS (72 PCS FINISHED GOODS) PER CARTON BOX.

NOTE : CARDBOARDS ARE PLACED BETWEEN LAYERS OF PACKING TRAY INSIDE CARTON BOX.

(INCLUDE THE UPPERMOST AND LOWERMOST TRAY)

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				.X		UNIT : INCH [mm]	REV. : PB
DRAWN BY CHRIS	DATE 11-07-06		FILE NAME C8502C8R54PB.DWG	.XX		SCALE : N/A	SIZE : A4
				.XXX	±0.004		PAGE : 6

