

R

1 2 3 4 5 6 7 8

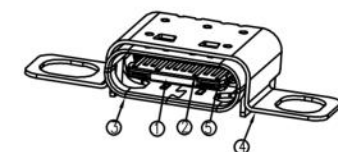
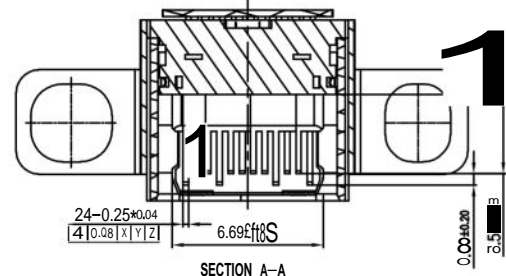
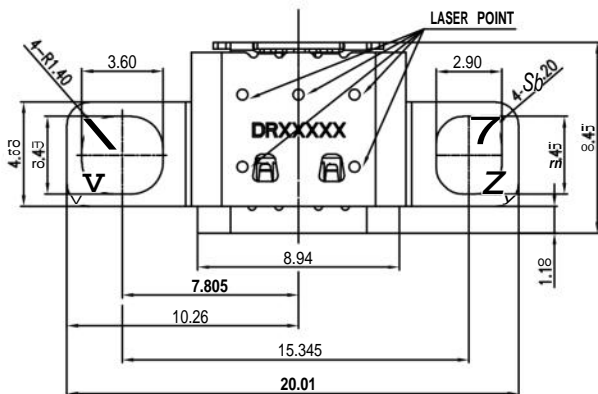
HF

Halogen Free



REV.	ECN NO.	LOCATION	DESCRIPTION	DATE	DESIGN
X1			INITIAL RELEASE	04/2'21	Wenbin
X2			Change the layout	05/13'21	Wenbin
X3			ADJUSTING STRUCTURE	07/02'21	Wenbin
X4			UPDATE DIMENSION	07/08'21	Wenbin
X5		©	CHANGE THE COLOUR OF SHELL	08/21'21	Chen haibo

A

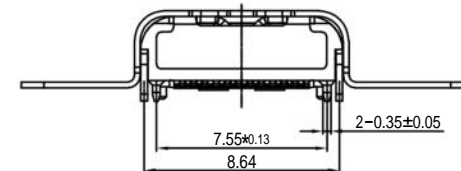
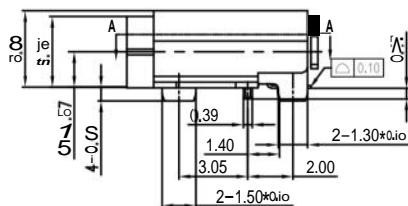
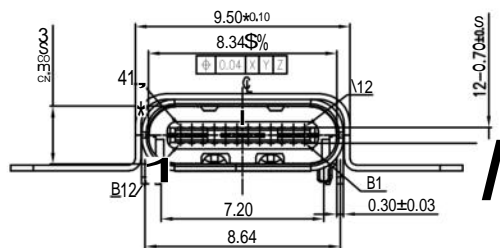


B

A

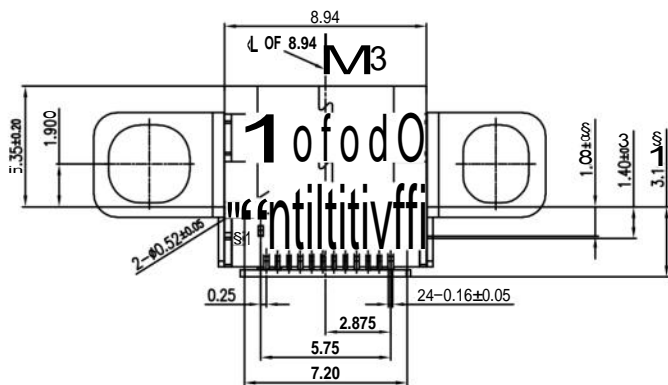
B

C



C

D



©	MID-PLATE	STAINLESS STEEL	NICKEL PLATING 50u" Min	1
©	OUTER SHELL	STAINLESS STEEL	Ni PLATING 50u" Min,COLOR(SEE NOTES)	1
©	INNER SHELL	STAINLESS STEEL	Ni PLATING 50u" Min,COLOR(SEE NOTES)	1
©	CONTACT	COPPER ALLOY	Ni PLATING 50u" Min UNDERPLATING,SOLDER AREA Sn 80u" Min,CONTACT AREA SEE PART NO. NOTES	24
©	HOUSING	HIGHTEMP-PLASTIC	LCP BLACK UL94V-0	1
NO.	PART NAME	MATERIAL	FINISH	Q'TY

D

E

DIM	TOL	DIM	TOL
.X	±0.50	x	±5'
.XX	±0.30	.x	±3'
.XXX	±0.20		
	±0.15		



DEREN
SHENZHEN DEREN ELECTRONIC CO., LTD

DRAW NO.	DESIGN:	Chen haibo	DATE	08/21'21	P/N: 40 42379-A7211RHF
SC2107299	CHECK:	Charles	08/21'21	SHEET: 1/3	
	REV.	X5	APPROVAL:	Smark	
				SCALE:	1:1
				UNIT:	mm

E

1 2 3 4 5 6 7 8

J

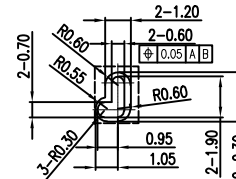
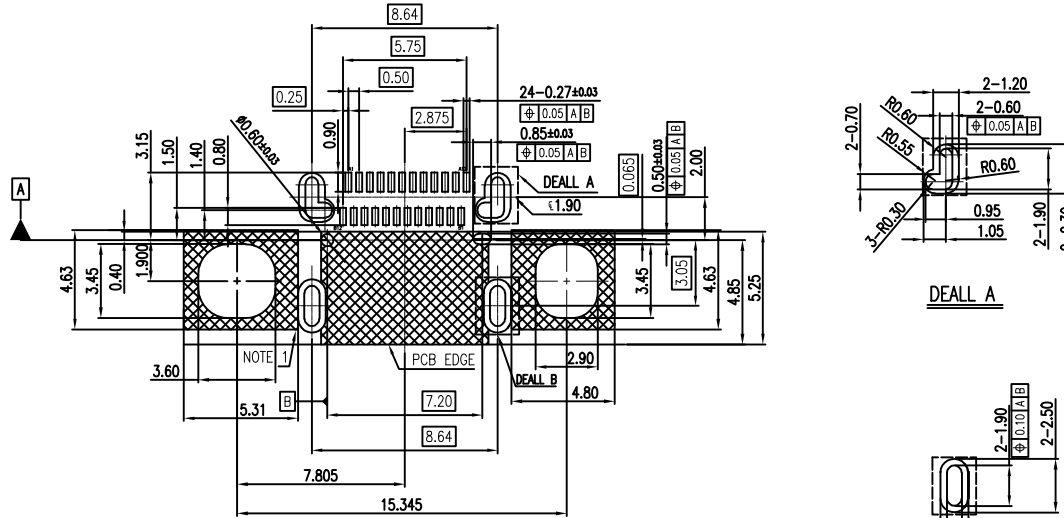
HF

Halogen Free

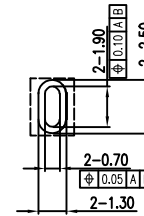


REV.	ECN NO.	LOCATION	DESCRIPTION	DATE	DESIGN
SEE PAGE 1					

- NOTES :
- ELECTRICAL :
 - CONTACT CURRENT RATING :
 - 5.0A FOR VBUS AND GND. (i.e., Pins A4,A9,B4,B9)
 - 1.25A FOR Vconn AND GND. (i.e., Pins B5,A1,A12,B1,B12)
 - 0.25A FOR ALL THE OTHERS CONTACTS.
 - INSULATION RESISTANCE : 100 MEGOHMS MIN. AT 250VDC.
 - DIELECTRIC WITHSTANDING VOLTAGE : 100VAC MIN.
 - LOW LEVEL CONTACT RESISTANCE :
 - INITIAL 40mΩ MAX.
 - AFTER 50mΩ MAX.
 - MECHANICAL CHARACTERISTICS :
 - INSERTION FORCE : 5N~20N .
 - EXTRACTION FORCE : 8N~20N .
 - DURABILITY : 10,000 MATING CYCLES.
 - OPERATING TEMPERATURE : -55°C TO +85°C
 - REFLOW SOLDER CAPABLE TO 260°C 10 SECONDS.
 - SALT SPRAY: SHELL BLACK NI 8H, SHELL BRIGHT NI 48H
 - PART NUMBER DESCRIPTION: 40-42379-A7XXXRHF



DEALL A

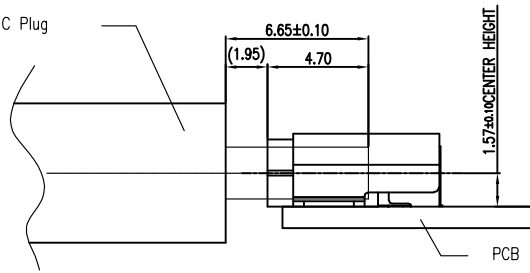


DEALL B

RECOMMENDED PCB LAYOUT
PCB THICKNESS 1.0+/-0.05mm

- HALOGEN CODE:
HF-HALOGEN FREE
- PACKAGE CODE:
R: TAPE & REEL PACKING
RESERVED CODE
- PLATING CODE:
1: Au 30u" ON CONTACT AREA
2: Au 15u" ON CONTACT AREA
3: Au 5u" ON CONTACT AREA
4: GOLD FLASH ON CONTACT AREA
- SHELL PLATED CODE:
①: ALL SHEEL NICKEL PLATED
1: TOP SHEEL BLACK NICKEL PLATED & INNER SHEEL NICKEL PLATED
②: ALL SHEEL BLACK NICKEL PLATED
3: TOP SHEEL NICKEL PLATED & INNER SHEEL BLACK NICKEL PLATED
- TOP SHELL :
0: W/O TOP SHEEL
7: WITH TOP SHEEL
- PIN NUMBER CODE:
A: 24 PINS

USB Type C Plug



MATING CONDITION

PIN DEFINE:

Pin	Signal Name	Description	Mating Sequence	Pin	Signal Name	Description	Mating Sequence
A1	GND	Ground return	First	B12	GND	Ground return	First
A2	SS17p	Positive half of first SuperSpeed TX differential pair	Second	B11	SS17p	Positive half of first SuperSpeed RX differential pair	Second
A3	SS17n	Negative half of first SuperSpeed TX differential pair	Second	B10	SS17n	Negative half of first SuperSpeed RX differential pair	Second
A4	Vbus	Bus Power	First	B9	Vbus	Bus Power	First
A5	CC1	Configuration Channel	Second	B8	SBU2	Sideband Use(SBU)	Second
A6	Dp1	Positive half of the USB 2.0 differential pair-Position 1	Second	B7	Dn2	Negative half of the USB 2.0 differential pair-Position 2	Second
A7	Dn1	Negative half of the USB 2.0 differential pair-Position 1	Second	B6	Dp2	Positive half of the USB 2.0 differential pair-Position 2	Second
A8	SBU1	Sideband Use(SBU)	Second	B5	CC2	Configuration Channel	Second
A9	Vbus	Bus Power	First	B4	Vbus	Bus Power	First
A10	SS17n2	Negative half of second SuperSpeed RX differential pair	Second	B3	SS17p2	Positive half of second SuperSpeed TX differential pair	Second
A11	SS17p2	Positive half of second SuperSpeed TX differential pair	Second	B2	SS17n2	Negative half of second SuperSpeed RX differential pair	Second
A12	GND	Ground return	First	B1	GND	Ground return	First

DIM	TOL	DIM	TOL
.x	±0.30	.x	±1'
.x	±0.25	.x	±1'
.xx	±0.15		



DEREN
SHENZHEN DEREN ELECTRONIC CO., LTD

CUSTOMER DRAWING		DATE		TITLE: USB TYPE C REC Top-Mount Dual SMT CH=1.57 W/SCRW CONNECTOR	
DESIGN:	Chen haibo	08/21/21	P/N:	40-42379-A7211RHF	
CHECK:	Charles	08/21/21	SHEET:	2/3	
REV. X5	APPROVAL:	Smak	08/21/21	SCALE:	N/A UNIT: mm

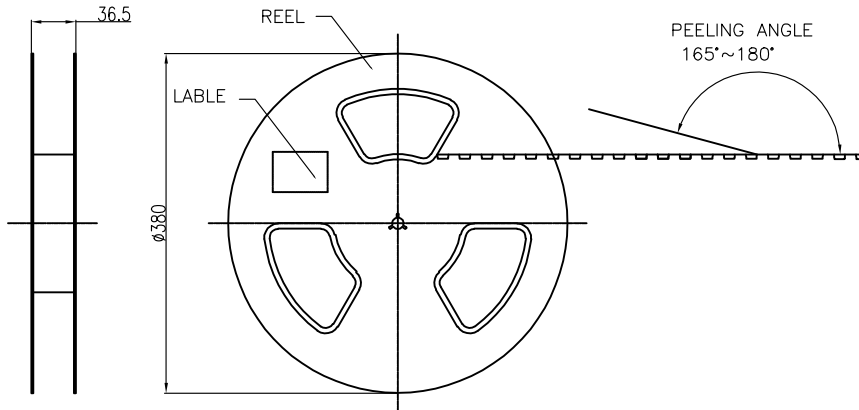
HF

Halogen Free

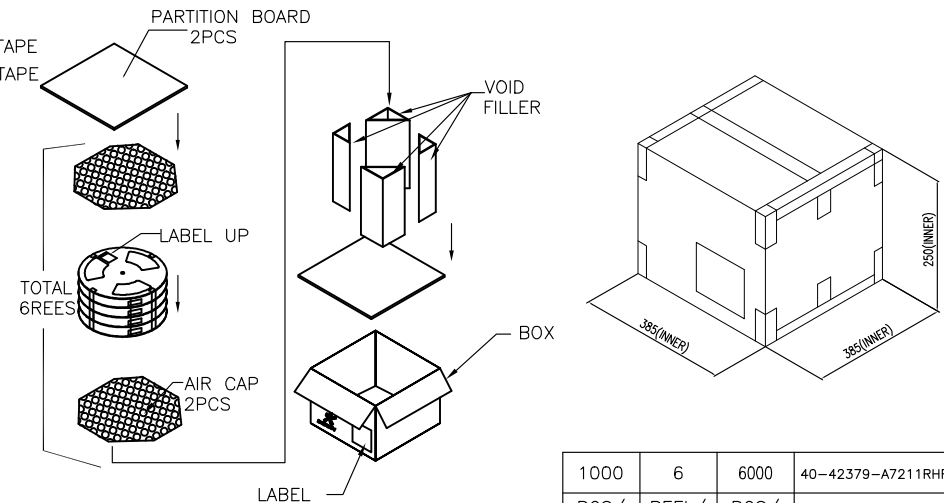
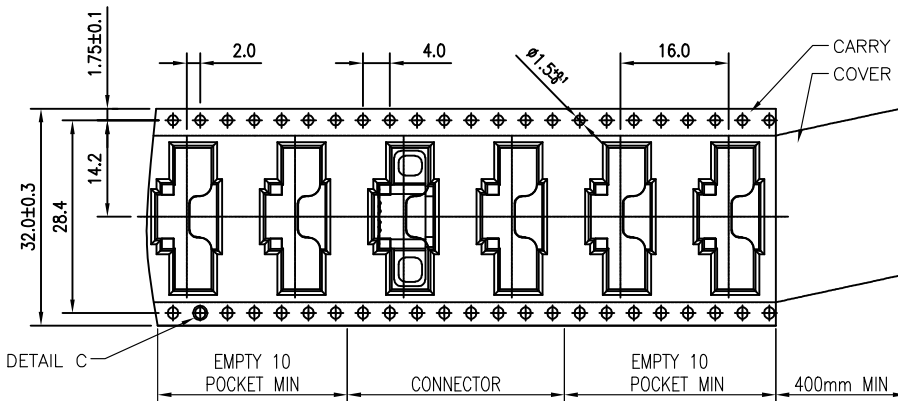


REV.	ECN NO.	LOCATION	DESCRIPTION	DATE	DESIGN
SEE PAGE 1					

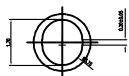
FEEDING DIRECTION →



- NOTES :
- PACKAGING MATERIAL IN PLASTIC, RUBBER, INK, PIGMENT AND PAINT MEET CONTROLLED SUBSTANCES SPEC. ROHS 2.0
 - * CADMIUM AND CADMIUM COMPOUNDS NOT TO EXCEED: 5 PPM.
 - * LEAD, CADMIUM, CHROM VI AND MERCURY NOT TO EXCEED: 100 PPM (COMBINED).
 - * CARRIER TAPES, COVER TAPES, REELS AND TAPED COMPONENTS MEET THE REQUIREMENTS DEFINED PER EIA-481-B.
- MATERIAL :
COVER TAPE : PS, COLOR: CLEAR
CARRIER TAPE : PET
REEL : PS
SHIPPING BOX: CORRUGATED FIBER
 - DIMENSION :
REEL : SEE DRAWING
BOX : SEE DRAWING
 - QUANTITY : SEE TABLE
 - WEIGHT : SEE TABLE
 - PEELING RESISTANCE : 10gf~130gf
 - PEELING SPEED : 300mm/MINUTES



1000	6	6000	40-42379-A7211RHF
PCS/REEL	REEL/BOX	PCS/BOX	PART NUMBER



DETAIL C
SCALE 4:1

FEEDING DIRECTION →

DIM	TOL	DIM	TOL
x.	±0.30	x.	±2'
.x	±0.20	.x	±1'
.xx	±0.15		

DEREN
SHENZHEN DEREN ELECTRONIC CO., LTD

DRAW NO. SC2107299	DESIGN: Chen haibo	DATE: 08/21'21	TITLE: USB TYPE C REC TOP-MOUNT Dual SMT CH=1.57 W/SCSR CONN
	CHECK: Charles	DATE: 08/21'21	P/N: 40-42379-A7211RHF
REV. X5	APPROVAL: Smark	DATE: 08/21'21	SHEET: 3/3
			SCALE: 1:1 UNIT: mm