

REV.	ECN NO.	LOCATION	DESCRIPTION	DATE	DESIGN
A			INITIAL RELEASE	2023.12.05	Sid Guo

NOTES:
PRODUCT MUST MEET CONTROLLED SUBSTANCES SPEC. ROHS 2.0 AND
MEET DEREN CONTROLLED SUBSTANCES SPEC PER WI-PB-S-010

1.MATERIAL:

- 1.1 HOUSING:LCP, UL94V.0; COLOR: BLACK
- 1.2 CONTACT PHOSPHOR BROZNE.
- 1.3 SOLDER PEG AND LATCH:STAINLESS STEEL.

2.FINISH:

- 2.1 CONTACT: 50u" MIN NICKEL UNDERPLATED ALL OVER.
GOLD FLASH PLATING ON SOLDERTAIL.
- 2.2 SOLDER PEG:
MATTE TIN 100u" MIN. AND NICKEL 50u" MIN UNDERPLATED.

3.LOGO&DATE CODE:

- LOGO: DR OR DEREN
DATECODE: YYWMDLX
YY: YEAR (09: 2009)
WW: WEEK (25: THE 25TH WEEK)
D: DAY (1~7: SUNDAY~SATURDAY)
L: LINE NUMBER OF ASSEMBLY (A: LINE A)
X: MANUFACTURE CODE

4.REFLOW SOLDER CAPABLE TO 260°C 10 SEC.

5.ELECTRICAL CHARACTERISTICS :

- 5.1 CURRENT RATING:0.5AMP.
- 5.2 CONTACT RESISTANCE:55 MILLIOHMS MAX. INITIAL,
20 MILLIOHMS MAX. CHANGE AFTER TEST.
- 5.3 IMPEDANCE:85±10% OHMS
- 5.4 INSULATION RESISTANCE:500 MEGOHMS MIN. INITIAL
100 OHM MIN. CHANGE AFTER TEST.
- 5.5 DIELECTRICAL WITHSTAND VOLTAGE:300V AC
MIN.AT SEA LEVEL.

6.MECHANICAL CHARACTERISTICS:

- 6.1 INSERTION FORCE:20N MAX.PER CONTACT PAIR.
- 6.2 DURABILITY:60 MATING AND UNMATING CYCLES.

7.ENVIRONMENTAL CHARACTERISTICS:

OPERATING TEMPERATURE RANGE:40°C TO +80°C.

8.RECOMENDED STENCIL THICKNESS:0.12MM MIN.

9.CONNECTOR ACTUAL PIN QUANTITY IS 67,
AS THE KEY TAKING OUT 8 PINS.

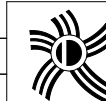
10.PART NUMBER DESCRIPTION:

40-42569-067 4 X R HF

HALOGEN CODE:
HF:HALOGEN FREE
R: TAPE & REEL PACKING
PLATING CODE:
1: AuGF 2: Au5u"
3: Au10u" 4: Au15u" 5: Au30u"
KEY TYPE:
4: KEY E
PIN NUMBER CODE:
067: 67 PINS

TABLE 1:

PART NUMBER	DESCRIPTION	DIM	TOL	DIM	TOL
40-42569-06741RHF	Au G/F ON CONTACT AREA	X.	±0.30	X.	±2°
40-42569-06742RHF	Au 5u" ON CONTACT AREA	.X	±0.25	.X	±1°
40-42569-06743RHF	Au 10u" ON CONTACT AREA	.XX	±0.20		
40-42569-06744RHF	Au 15u" ON CONTACT AREA				
40-42569-06745RHF	Au 30u" ON CONTACT AREA				



DEREN

SHENZHEN DEREN ELECTRONIC CO., LTD

DRAW NO.
SC1600397-1

REV. A

DESIGN: Sid Guo 2023.12.05

CHECK: Mike Chen 2023.12.05

APPROVAL: Bill Lin 2023.12.05

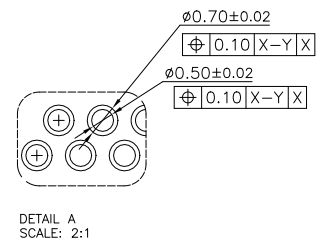
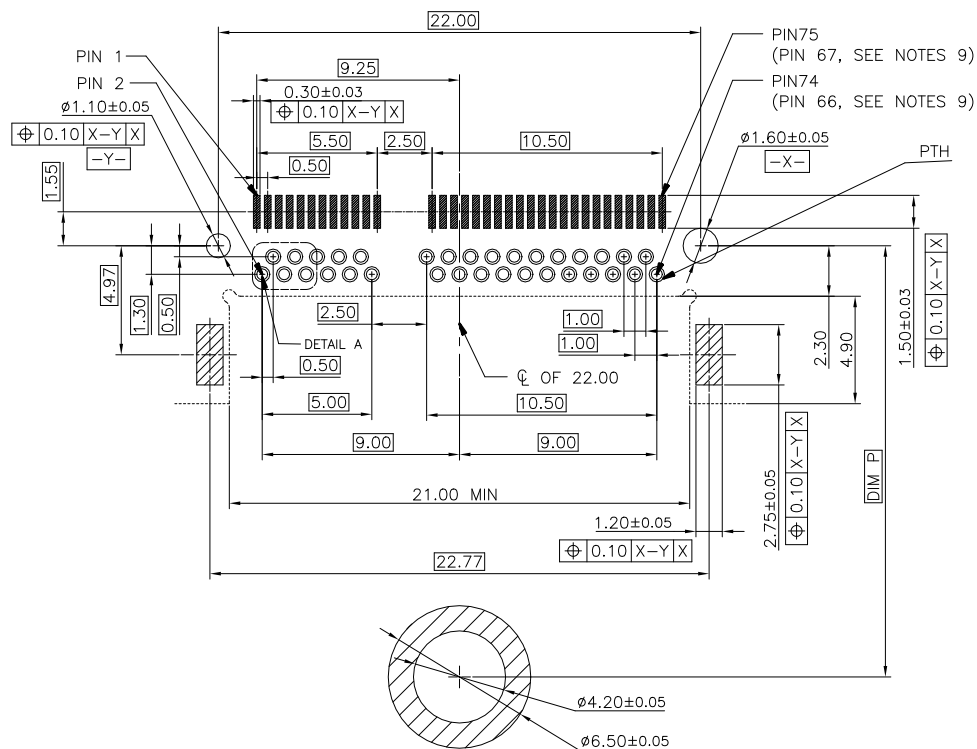
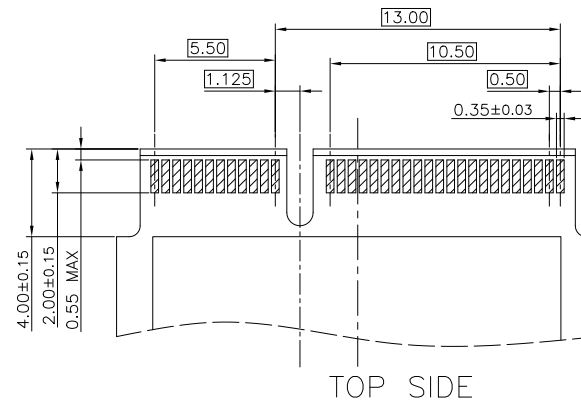
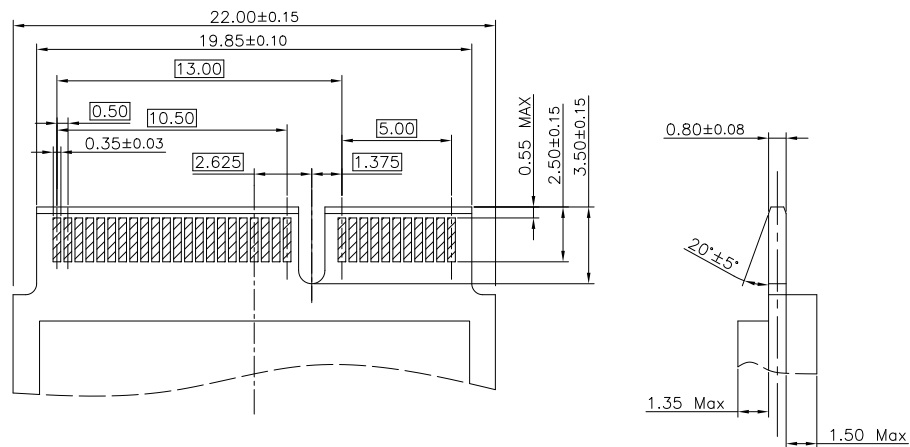
TITLE: NGFF 1.60H KEY E STD
CH 0.45

P/N: SEE TABLE 1

SHEET: 1/3

SCALE: N/A UNIT: mm

PLUG PCB



22110	114.00
2280	84.00
2260	64.00
2242	46.00
2230	34.00
3042	46.00
3030	34.00
MOUDULE TYPE	DIM P

DIM	TOL	DIM	TOL
x.	± 0.20	x.	$\pm 2^{\circ}$
.x	± 0.10	.x	$\pm 1^{\circ}$
.xx	± 0.05		



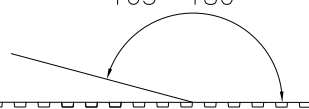
DEREN
SHENZHEN DEREN ELECTRONIC CO., LTD

C-DWG:			TY	DATE	TITLE: NGFF 1.60H KEY E STD CH 0.45		
1	DESIGN:	Sid Guo	2023.12.05	P/N: SEE TABLE 1			
	CHECK:	Mike Chen	2023.12.05	SHEET:	2/3		
	APPROVAL:	Bill Lin	2023.12.05	SCALE:	N/A	UNIT:	mm

RECOMMENDED NGFF PCB LAYOUT(TOP VIEW)



PEELING ANGLE
165°~180°



CARRY TAPE
SLOT

- COVER TAPE



-AIR CAP
1PCS

- TAPE&REEL
5PCS

TOTAL
5REES

AIR CAP
1PCS

VOID
FILLER

— BOX
INNER SIZE
385X385X295mm

LABEL -

NOTES :

1. MATERIAL :
COVER TAPE : ANTISTATIC P.S T=0.05±0.01 ,COLOR:CLEAR
CARRIER TAPE : ANTISTATIC P.S T=0.40±0.10,COLOR:CLEAR
REEL : PS UL94V-0
CARTON: CORRUGATED FIBER
2. DIMENSION :
REEL : SEE DRAWING
SHIPPING BOX: 385X385X295mm
3. QUANTITY : SEE TABLE
4. PEELING RESISTANCE : 10gf~130gf (for 12~56mm)
5. PEELING SPEED : 300mm/MINUTES

1500
PCS/ TAPE

5
REELS/ BOX

	7500
'	PCS/BOX



SHENZHEN DEREN ELECTRONIC CO., LTD

C-DWG:

TYDATE _____

TITLE: NGFF 1.60H KEY E STD
CH 0.45

DESIGN:Sid Guo2023.12.05P/N: SEE TABLE 1

CHECK

III	Q
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2007-10-05

[illegible]

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SHEET:	5/5	0	17

AT TROVA

11

2025.12.05

SCALE.	N/A	UNIT.	mm
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DIM	TOL
X.	± 0.3
.X	± 0.2
.XX	± 0.1

DIM	TOL
X.	$\pm 2^\circ$
.X	$\pm 1^\circ$

		DEREN SHENZHEN DEREN ELECTRONIC CO., LTD				
		C-DWG:	TY	DATE	TITLE: NGFF 1.60H KEY E STD CH 0.45	
DRAW NO.		DESIGN:	Sid Guo	2023.12.05	P/N: SEE TABLE 1	
SC1600397-1		CHECK:	Mike Chen	2023.12.05	SHEET:	3/3 
REV.	A	APPROVAL:	Bill Lin	2023.12.05	SCALE:	N/A UNIT: mm