

REV.	ECN.NO.	DATE
A	RELEASED	08/15-'12
G	Amend Plating NI	03/11-'21
H	Modify View	06/02-'22

Receptacle Contact Pin Assignment as follows:

Top Row		Bottom Row	
Pin NO.	Signal Name	Pin NO.	Pin Name
1	PWR_IN	2	HPD_GND
3	TBT_HD2CA_0+	4	TBT_CA2HD_0+
5	TBT_HD2CA_0-	6	TBT_CA2HD_0-
7	GND	8	GND
9	LSTX	10	RESERVED
11	LSRX	12	RESERVED
13	GND	14	GND
15	TBT_HD2CA_1+	16	TBT_CA2HD_1+
17	TBT_HD2CA_1-	18	TBT_CA2HD_1-
19	RETURN	20	PWR_OUT

**NOTES:**

**\*Material**

Insert(Molding): LCP UL94V-0.  
 Retainer: LCP UL94V-0.  
 Contact: Phosphor Bronze.  
 Plating: Au plating on contact area.  
 Sn(100u" Min.) plating on solder tail.  
 Ni(50u" Min.) underplating overall.  
 Shell: SUS.  
 Plating: Ni(50u" Min.) Plating.

**\*Mechanical**

Insertion Force: 4.5Kg Max.  
 Withdrawal Force: 1.0~4.0Kg Min.  
 Durability: 10000 Cycles.

**\*Electrical Specification**

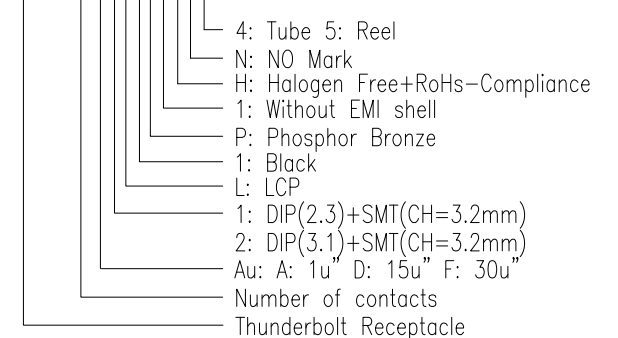
Current Rating: 0.5 Ampere per contact.  
 Contact Resistance: 30 mΩ max.  
 Insulation Resistance: 100MΩ Min.  
 Dielectric Withstanding Voltage: 500Vrms Min.

**\*Environmental**

Operating Temperature: -40°C to +85°C.

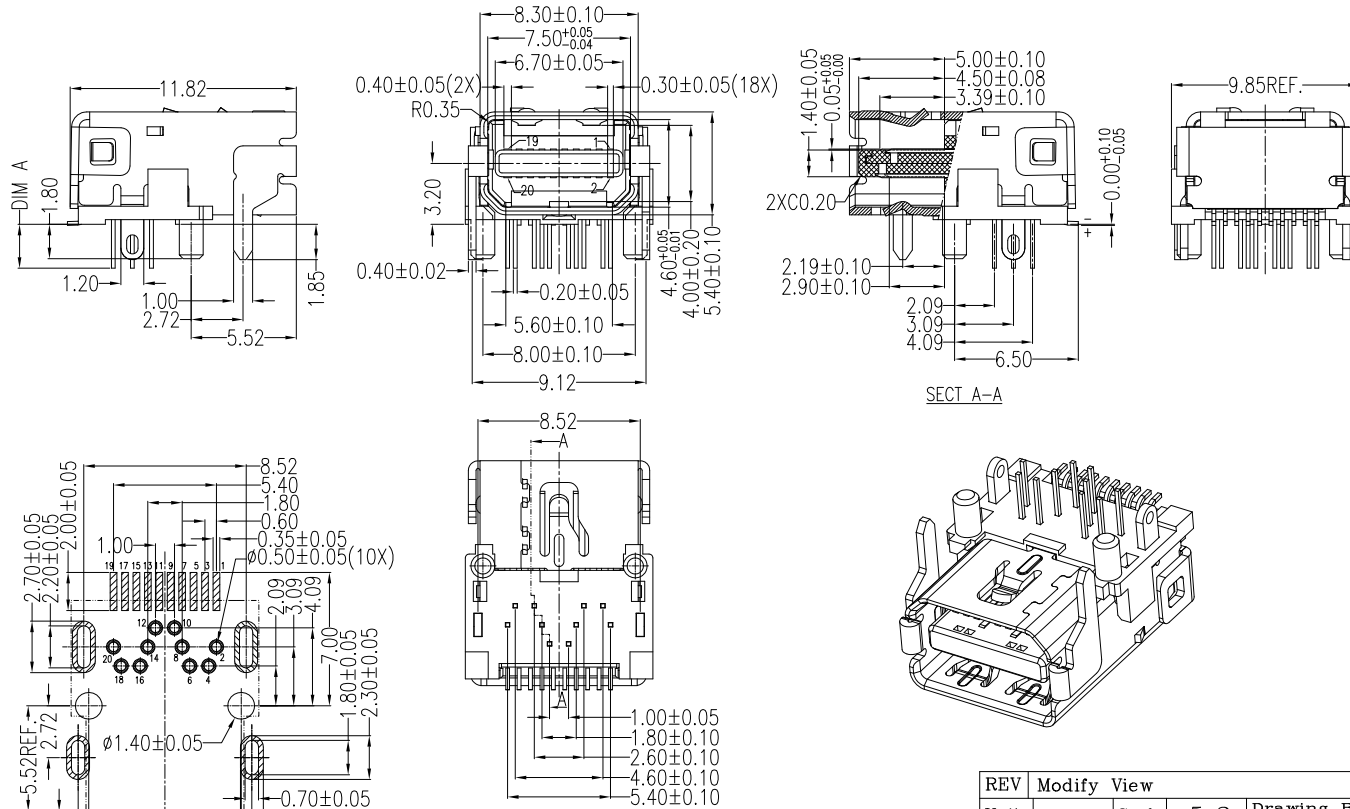
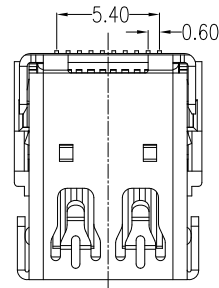
**\*How To Order**

WTBR-20F1L1P1HN4



Unit:mm

Part NO.	Dim A
WTBR-20*1***	2.30
WTBR-20*2***	3.10



REV	Modify View	Units	mm	Scale	5:2	Drawing By	WYY	Date	06/02-'22	WIN WIN PRECISION IND. CO., LTD. TEL: 886-2-22994155 FAX: 886-2-22994157	Title Thunderbolt 20P DIP+SMT(CH=3.2mm) Receptacle (No Mark)
						Reviewed By	Charles	Date	06/06-'22		
						Approval By	Nancy	Date	06/13-'22	Date 06/02-'22 Sheet 1 of 1 Third Angle Projection	Drawing No. WTBR-20PS-AN-NO98
										REV	H