

APPROVED: _____

DATE: _____ TITLE: _____

Rev	AWO #	Description	Date	Appr
-		RELEASED	3/29/21	
A		UPDATE DRAWING	9/11/24	LH/JL
B		UPDATE DRAWING	7/11/25	WY/RC
C		UPDATE SPEC.	9/3/25	WY/RC

SPECIFICATIONS:

Material:

Coding Housing: PA, Color: See Page2

Inner Housing: Thermoplastic, Color: Black

Contacts: Copper Alloy

Outer Contact: Zinc Alloy, 120–240u” Tin Plated

Ground Pin: Copper Alloy, 80–160u” Tin Plated

Contact Plating:

Contact area: 6u” Gold Plated

Solder tails area: 80–160u” Tin Plated

Underplate: 80–160u” Nickel underplate overall

Electrical:

Voltage rating: 60V DC Max

Current rating: 1.5A max

Contact resistance: 10 mohms max

Insulation resistance: 100 Mohms min

Dielectric withstanding voltage: 250V rms

Impedance, differential mode: 100Ω

Frequency Range: DC to 10 GHz

Return loss: ≥30 dB, 0.01 GHz to 3 GHz

≥25 dB, 3 GHz to 6 GHz

≥20 dB, 6 GHz to 10 GHz

≥15 dB, 10 GHz to 15 GHz

≥12 dB, 15 GHz to 20 GHz

Mechanical:

Durability: 25 Cycles

Engagement force: 75N max

Retention force: 110N min

Coding efficiency: 150N Min

Environmental:

Thermal shock & Mechanical shock & Humidity & Vibration:

USCAR–2 & USCAR–17

DIN EN 60512 & DIN IEC 60068

Soldering: IEC 60068–2

Temperature Rating:

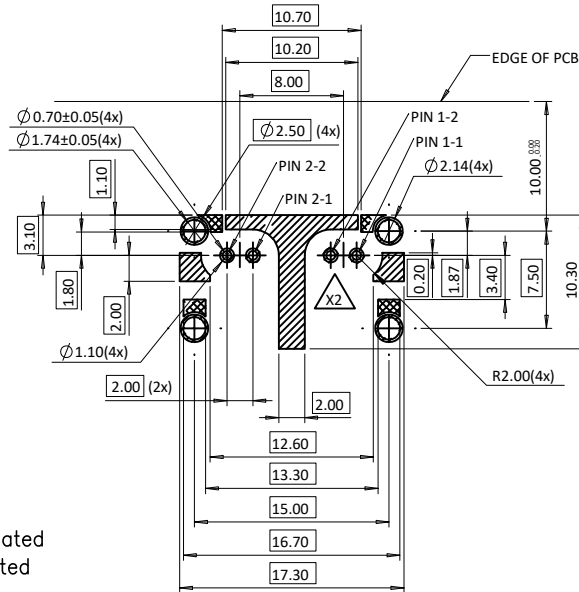
Operating temperature: –40°C to +105°C

Packing:

Standard: 100 pcs in tape & reel

Environmental:

Lead free, RoHS compliant



RECOMMENDED PCB LAYOUT



SOLDER AREA (11X)

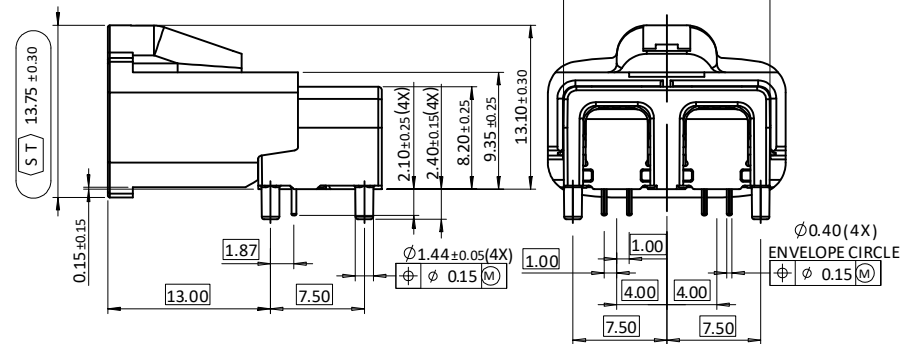
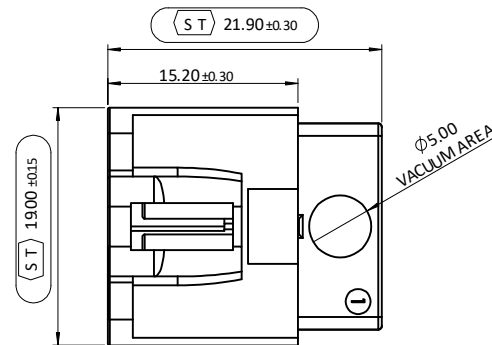
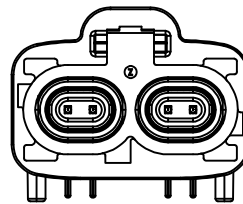
NO COMPONENT AREA



KEEP OUT AREA, FREE OF SOLDER, NO ROUTING UNDERNEATH (4X)



NO TRACE, NO TEST POINT, NO VIA HOLE, NO GROUND AREA



UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE MILLIMETERS. TOLERANCES: EXCEPT AS NOTED

MM	X.	± 0.50	ANGLE	± 5°
	.X	± 0.30		
	.XX	± 0.20		

DRAWN LH 3/29/21

CHECKED RT 3/29/21

APPROVED

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TITLE
**HIGH-SPEED MODULAR TWISTED-PAIR DATA
RIGHT ANGLE PLUG 2X2**

SIZE X PART NO. HTX-02XDBLC1R REV. C

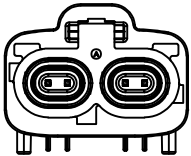
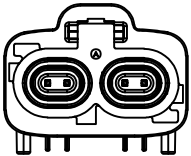
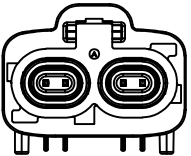
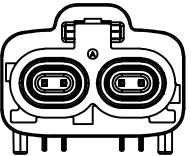
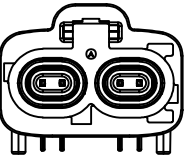
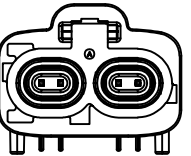
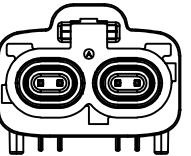
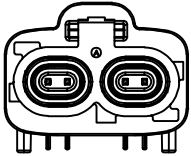
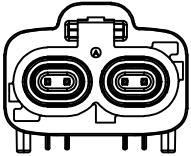
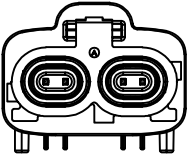
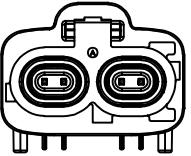
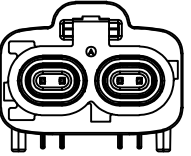
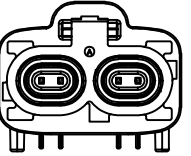
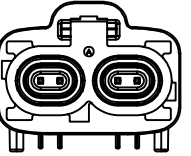
REF: S00013T SCALE: NTS SHEET 1 OF 2

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Rev	AWO #	Description	Date	Appr
SEE SHT 1 OF 2 FOR REVISION				

HTX-02XDBLC1R

Coding	A	B	C	D	E	F	G
Plug							
Color	Jet Black	Pure White	Light Blue	Claret Violet	May Green	Nut Brown	Platinum Grey
Coding	H	J	K	L	M	O	Z
Plug							
Color	Light Pink	Beige	Curry	Yellow Green	Pastel Orange	Light Green	Water Blue

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	.X ± 0.30		
	.XX ± 0.20		

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