

RoHS  
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**SPECIFICATION**

**MATERIAL AND FINISH:**

- CODING HOUSING: PA, COLOR SEE PAGE 3
- INNER HOUSING : THERMOPLASTIC, BLACK
- CONTACT: COPPER ALLOY  
PLATING AREA: 6u" AU OVER 80~160u" NI  
SOLDER TAIL AREA: 80~160u" SN OVER 80~160u" NI
- POWER PINS: COPPER ALLOY  
PLATING AREA: 40~160u" SN OVER 40~160u" NI
- OUTER CONTACT(PCB): ZAMAK  
PLATING AREA: 120~240u" SN (MATTE) OVER 120~240u" NI  
OVER 600~800u" CU

**ELECTRICAL CHARACTERISTIC:**

- CHARACTERISTIC IMPEDANCE: 100 Ω
- FREQUENCY RANGE: DC TO 10.0 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
- INSULATION RESISTANCE: 100 MΩ MIN.
- CENTER CONTACT RESISTANCE: ≤10 mΩ
- OUTER CONTACT RESISTANCE: ≤7.5 mΩ
- WORKING VOLTAGE : ≤60V DC
- POWER CURRENT: ≤1.5A DC
- POWER CURRENT MQS PINS: ≤5A DC

**MECHANICAL CHARACTERISTIC:**

- DURABILITY: ≥20 CYCLES

**ENVIRONMENT:**

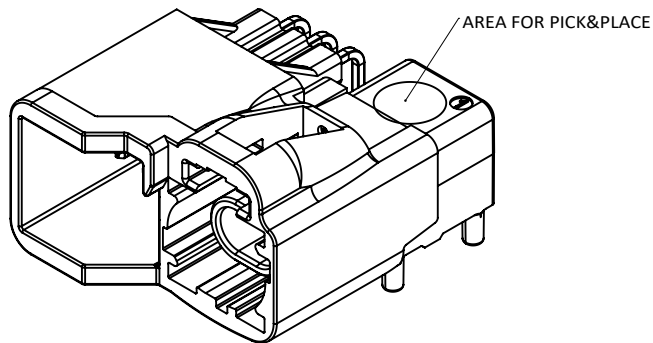
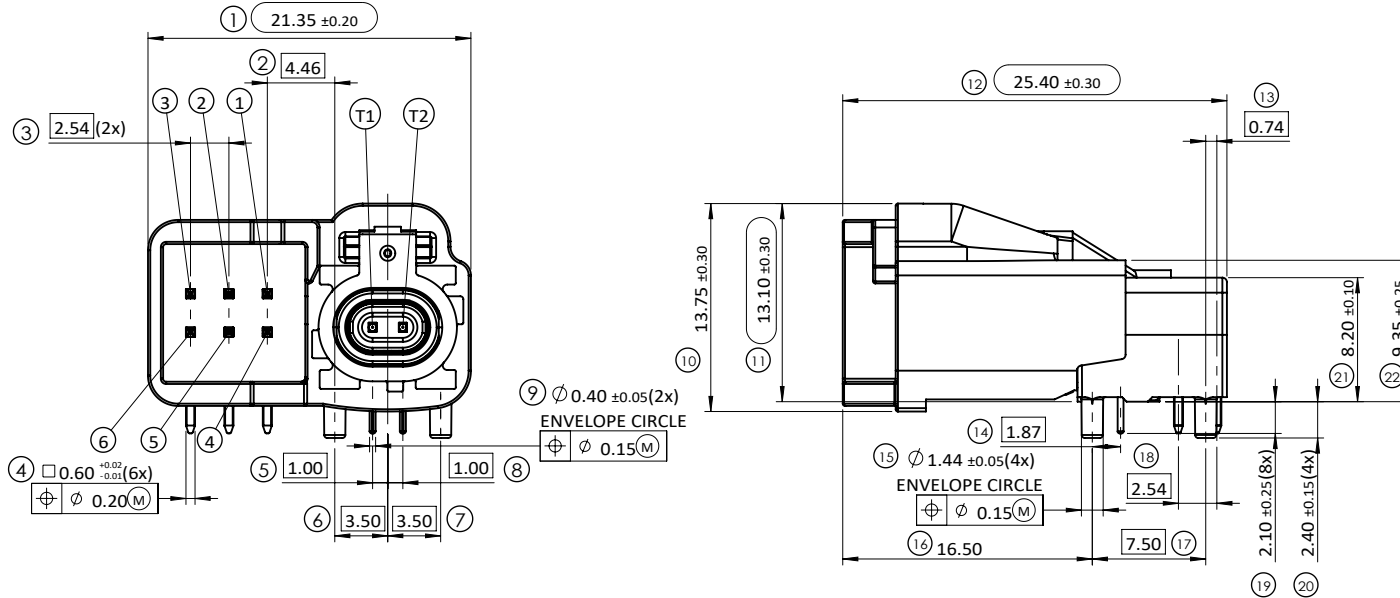
- OPERATING TEMPERATURE RANGE: -40°C TO +105°C

**PACKING:**

- TAPE REEL

**NOTE:**

ALL MATERIALS MUST BE USCAR-2, USCAR-17 AND EIA-364 COMPLIANT;  
SUPPORTING DOCUMENTATION MUST BE MADE AVAILABLE ON REQUEST

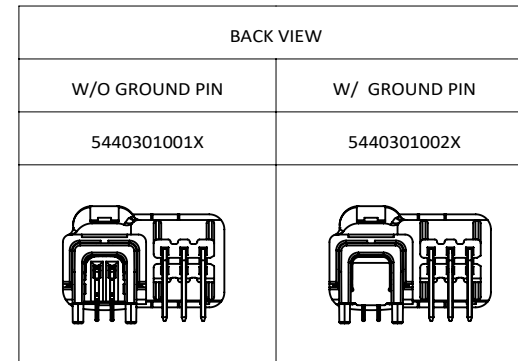
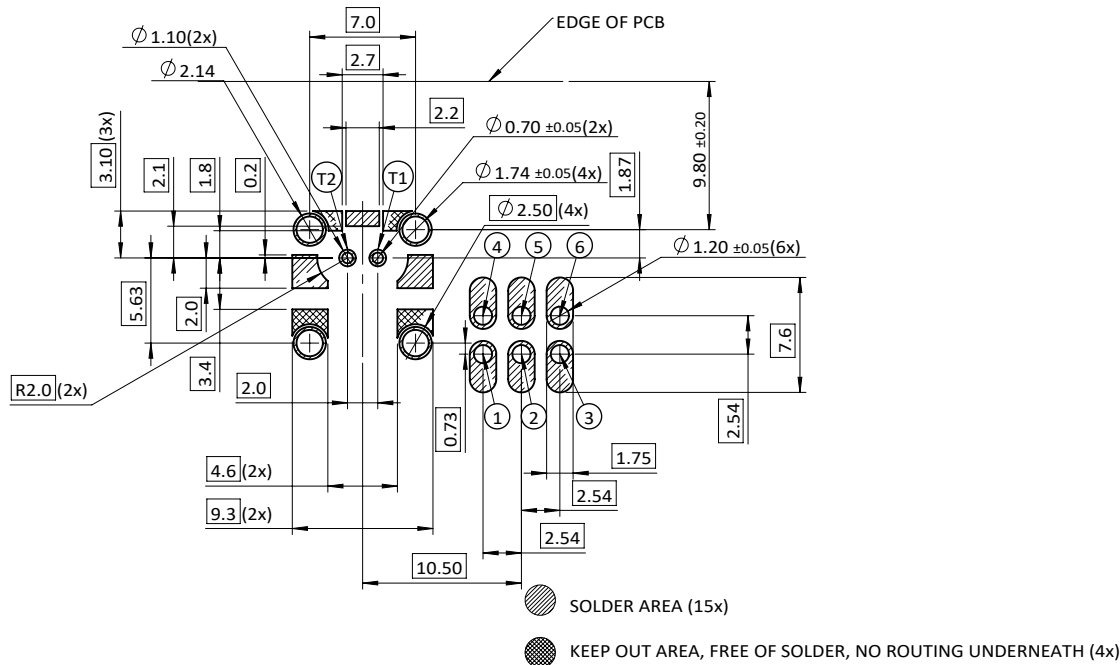


X=CODING(SEE PAGE 3/3)

5440301002X	W/ GROUND PIN	
5440301001X	W/O GROUND PIN	
NEW P/N.	TYPE	NOTE
UNLESS OTHERWISE SPECIFIED TOLERANCE ANG. +5° 0. +0.50 .0 +0.30 .00 +0.20	SIP	 <b>CHANT SINCERE CO.,LTD</b>
	Crmk Cpk	
SCALE: AS SHOWN	UNIT: mm	
DRAWN: KEVIN_ZHENG	28 Oct 2025	TITLE: PDR-23034
CHECKED: PEARL_HUNG	29 Oct 2025	CAR ETHERNET 1x1 R/A+MQS 6PIN
APPROVED: PEARL_HUNG	29 Oct 2025	PART NO. 544030100XX
SIZE A4	SHEET 1/3	REV. B
		CODE: GC
		CUSTOMER:

ZONE	REVISION	DESCRIPTION	DATE
1	2	3	4
	B	ECN-2510115(KEVIN)MODIFY PART NAME	28OCT2025
	A	ECN-2503060(JOE)X3 CHANGE TO A	14MAR2025

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THE STATED DIMENSIONS ARE ONLY RECOMMENDATIONS.  
THIS GIVEN LAYOUT IS NOT OPTIMISED TO FIT ALL OF THE POSSIBLE BOARD CONFIGURATIONS REGARDING RF-PERFORMANCE, IT REPRESENTS A RECOMMENDATION FOR OPTIMAL PLACEMENT OF THE CONNECTOR.  
IN ORDER TO GUARANTEE OPTIMUM HIGH FREQUENCY PROPERTIES OF THE CONNECTOR, AN RF-ANALYSIS OF THE CONNECTOR TO BOARD TRANSITION IS RECOMMENDED.

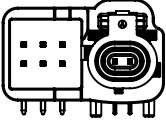
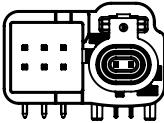
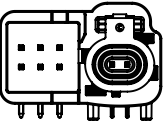
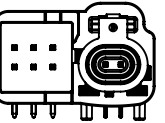
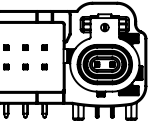
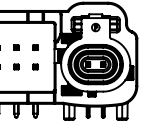
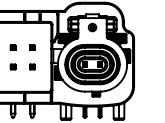
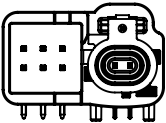
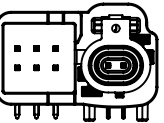
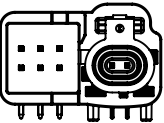
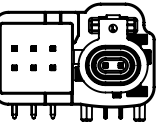
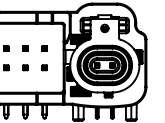
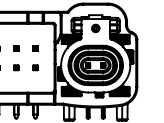
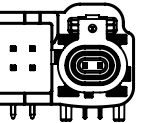
UNLESS OTHERWISE SPECIFIED TOLERANCE	SIP Cmk Cpk	 <b>CHANT SINCERE CO.,LTD</b>
ANG. ±5° 0. ±0.50 .0 ±0.30 .00 ±0.20	SCALE: 2:1	
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SIZE A4 SHEET 2/3	REV. B	CODE: GCGC CUSTOMER:





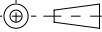
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A	A	ECN-2503060(JOE)X3 CHANGE TO A	14MAR2025

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\*=DEVELOPING

*A	*B	*C	*D	*E	*F	G
JET BLACK SIMILAR RAL 9005	PURE WHITE SIMILAR RAL 9010	LIGHT BLUE SIMILAR RAL 5012	CLARET VIOLET SIMILAR RAL 4004	MAY GREEN SIMILAR RAL 6017	NUT BROWN SIMILAR RAL 8011	PLATINUM GREY SIMILAR RAL 7036
						
H	J	K	L	M	O	*Z
LIGHT PINK SIMILAR RAL 3015	BEIGE SIMILAR RAL 1001	CURRY SIMILAR RAL 1027	YELLOW GREEN SIMILAR RAL 6018	PASTEL ORANGE SIMILAR RAL 2003	LIGHT GREEN SIMILAR RAL 6027	WATER BLUE SIMILAR RAL 5021
						

UNLESS OTHERWISE SPECIFIED TOLERANCE		 SIP  Cmk  Cpk		 <b>CHANT SINCERE CO.,LTD</b>	
ANG.	±5°	SCALE:	2:1		
0.	±0.50	DRAWN:	KEVIN_ZHENG	28 Oct 2025	TITLE: PDR-23034
.0	±0.30	CHECKED:	PEARL_HUNG	29 Oct 2025	CAR ETHERNET R/A 1x1+MQS 6PIN
.00	±0.20	APPROVED:	PEARL_HUNG	29 Oct 2025	PART NO. 544030100XX
		SIZE	A4	SHEET	3/3
REV.		B	CODE:	GC	CUSTOMER:

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