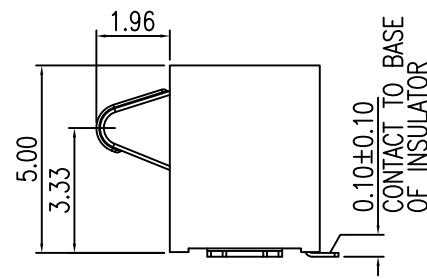
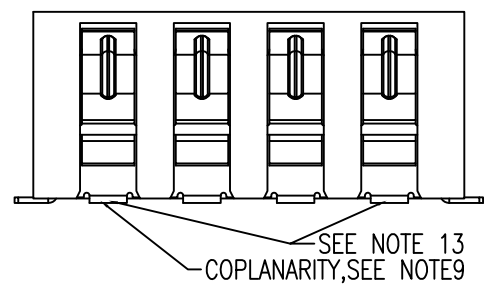
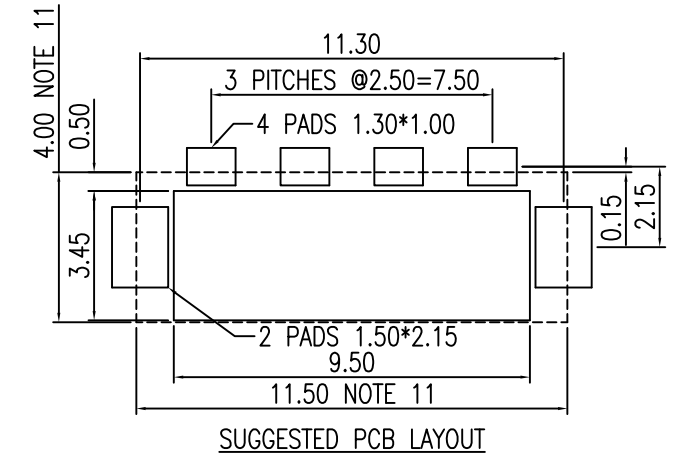
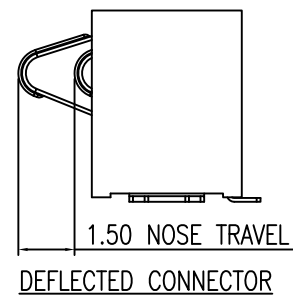
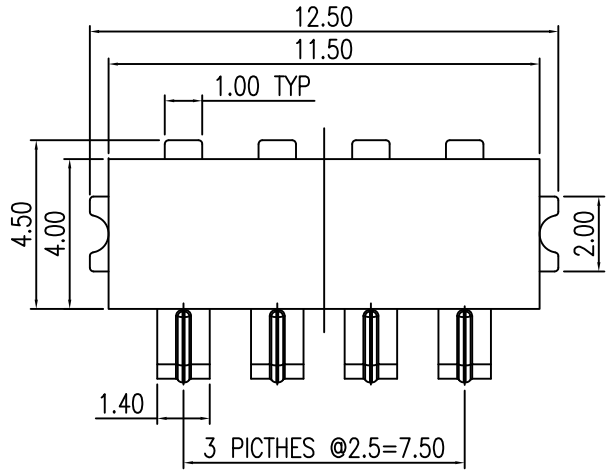
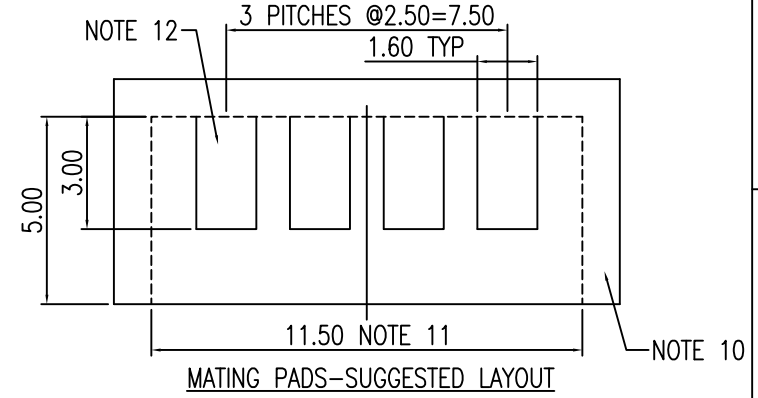
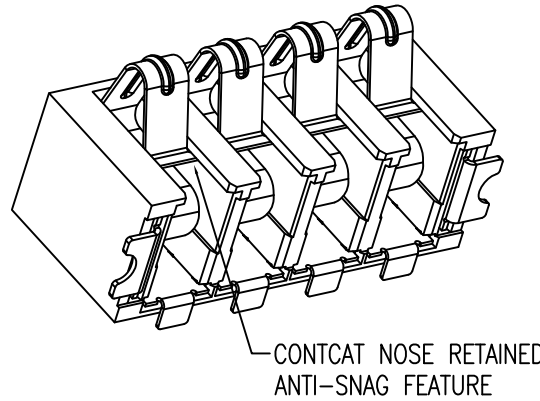


PROPRIETARY INFORMATION
COMPANY CONFIDENTIAL

4 WAY BATTERY CONNECTOR – RIGHT ANGLE
3.3mm HIGH NOSE POSITION

REV.	ECN. NO.	DESCRIPTION	ENG	DATE
X1		NEW DRAWING	Ryan	12/10/18'
X2		ADD PRODUCT TEST SPEC	Peter	12/20/18'



PACKING DETAILS
UNREEL DIRECTION

TBC
TBC
UNREEL DIRECTION
330mm DIAMETER REEL

NO OF WAYS	4
REEL QTY	TBC
TAPE WIDTH	24mm
POCKET PITCH	12mm

GENERAL TOLERANCE	ANGLE TOLERANCE	DRAWN	DATE
X±	X'±	Peter	12/20/18'
.X±0.35	.X'±	CHECKED	DATE
.XX±0.25	.XX'±	APPROVED	DATE
.XXX±0.15	.XXX'±		

MATL. SEE BOM
FINISH SEE NOTES
SCALE N/A UNIT mm
SHEET 1 OF 2

genesis
connected solutions

TITLE:
RIGHT ANGLE BATTERY CONNECTOR
PART NUMBER:
160-10019-01
DRAWING NO.
160-10019
SIZE A4
REV. X2



PROPRIETARY INFORMATION
COMPANY CONFIDENTIAL

NOTES:

1. GENERAL TOLERANCE ± 0.20 UNLESS OTHERWISE STATED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-114
3. INSULATOR MATERIAL: -30% GLASS FILLED NYLON 46, UL94 HB, HALOGEN FREE, COLOUR BLACK
4. CONTACT MATERIAL: -BERYLLIUM COPPER.
5. CONTACT PLATING: -SELECTIVE GOLD 0.4um OVER NICKEL, PURE TIN ON TAILS
6. BRACKET MATERIAL: -PHOSPHOR BRONZE.
7. BRACKET PLATING: -PURE TIN OVER NICKEL.
8. NOMINAL CONTACT FORCE 140 GRAMS AT 1.50 DEFLECTION.
9. COPLANARITY OF ALL CONTACT TAILS AND PADS 0.10mm MAXIMUM.
10. TOP SURFACE OF HORIZONTAL PCB/BASE OF CONNECTOR
11. OUTLINE OF CONNECTOR.
12. PREFERRED PLATING ON PADS GOLD OVER NICKEL.
13. IT IS PERMISSIBLE TO RUN 4 AMPS THROUGH CONTACTS 1 AND 4 (OUTER CONTACTS) PROVIDING THE CURRENT THROUGH CONTACTS 2 AND 3 (INNER CONTACTS) DOES NOT

 REQUIREMENTS:

- CONTACT RESISTANCE = 25 mOhm Max
- INSULATION RESISTANCE = 100 Mohm Min
- CONNECTOR PERFORMANCE OVER LIFE = 10K CYCLE Min
- VIBRATION
SWEPT SINE , 50 TO 2000 HZ - 0.6mm AMPLITUDE TO 200 HZ THEN 15 GMS PP , 20 Min FROM 50 TO 2000 HZ & RETURN , 12 SWEEPS PER AXIS , 3 MUTUALLY PERPENDICULAR AXES , 36 SWEEPS TOTAL
- MINIMUM CONTACT RETENTION FORCE = 1N
- SHOCK (THERMAL)
-20°C AND + 70°C DWELL 10 Min AT EACH EXTREME RAMP RATE AT LEAST +/- 22.5 °C/Min 25 CYCLES
- TEMPERATURE / HUMIDITY CYCLING
+65°C, 93% RH TO -25°C, NO HR REQUIREMENT - 1 HR AT EACH CONDITION, 20 CYCLES. OR IEC 60068-2-38 - 24 HOUR CYCLE WITH COLD EXCURSION - 20 CYCLES
- OPERATING TEMPERATURE = -40°C TO 125°C
- SOLDER REFLOW PROFILE SHOULD BE IN ACCORDANCE WITH IPC / JEDEC J-STD-20D

GENERAL TOLERANCE X.± .X±0.35 .XX±0.25 .XXX±0.15	ANGLE TOLERANCE X°± .X°± .XX°± .XXX°±	DRAWN Peter	DATE 12/20/18'	
MATL SEE BOM	FINISH SEE NOTES	CHECKED	DATE	
SCALE N/A	UNIT mm	APPROVED	DATE	PART NUMBER. 160-10019-01
SHEET 2 OF 2				DRAWING NO. 160-10019
				SIZE A4 REV. X2