



**NOTES**  
GENERALLY TO THE REQUIREMENTS OF MIL-DTL-38999  
MATES WITH AMPHENOL USBFTV AND USB3FTV

**MATERIALS**  
USB 3.0 A INSERT  
CONTACT AREA 0.76µm Au OVER 1.27-2.54 µm Ni  
SHIELDING - TIN PLATED BRASS  
BODY - LCP, UL94V-0

PCB - FR4, UL94V-0  
SEAL - SILICONE ELASTOMER  
INSULATOR - PPS GL40 UL94  
POTTING - RTV3140 UL94V-0

**PERFORMANCE**  
CURRENT RATING - PINS 1 AND 4 - 1.8 AMP MAX  
- OTHER PINS - 0.25A MAX  
DATA RATE - UP TO 5Gbit/s FOR SUPERSPEED USB  
VOLTAGE RATING 30V AC  
TEMPERATURE -20°C TO +85°C  
5000 MATING CYCLES MAX (USB 3.0 CONNECTOR ONLY)

SHELL - MATING CYCLES 500 MAX  
SEALED TO IP68 WHEN MATED

**PC4B0100-15NX-1-C**

SERIES  
SHELL SIZE  
KEY ARRANGEMENT (N, A, B, C, D, E)  
INSERT ROTATION (X = 0°, Y = 90°, Z = 270°)  
MATERIAL AND PLATING (SEE TABLE)

CODE	MATERIAL / FINISH
1-C	ALUMINIUM / ELECTROLESS NICKEL
1-B	ALUMINIUM / CADMIUM OLIVE DRAB OVER ELECTROLESS NICKEL
1-ZB	ALUMINIUM / ZINC COBALT OLIVE DRAB OVER ELECTROLESS NICKEL
1-ZK	ALUMINIUM / ZINC COBALT BLACK OVER ELECTROLESS NICKEL
1-ZN	ALUMINIUM / ZINC NICKEL BLACK PASSIVATE OVER ELECTROLESS NICKEL
4-J	STAINLESS STEEL / PASSIVATE
2-Z	NICKEL ALUMINIUM BRONZE / SHOT BLAST

#### CUSTOMER APPROVAL

COMPANY	NAME	SIGNATURE	DATE

ORDERS CANNOT BE PLACED AGAINST ALPHA ISSUED DRAWINGS.  
ON RECEIPT OF CUSTOMER APPROVAL, THE DRAWING STATUS WILL BE RAISED TO ISSUE 1.

LIST NOT EXHAUSTIVE, FOR COMPREHENSIVE LIST AND SPECS, SEE WEBSITE

DRAWN	R.S.	DATE	3RD ANGLE PROJECTION NOT TO SCALE
SALES APPR	J.C.	28/05/2015	
DESIGN APPR	M.PAUL		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS IN MILLIMETRES
PROD APPR			GENERAL TOL
QUAL APPR			LINEAR +/-0.25MM
ISSUE	REV.	DCR	ANGULAR +/- 1°
B			
NCAGE CODE U5792		WEIGHT	

**PART NUMBER:**

**TITLE:**

**USB 3.0 A FEEDTHROUGH RECEPTACLE**

**ASSY USED ON: USB 3.0 D38999/20**

THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF POLAMCO LTD  
IT MUST NOT BE COPIED, USED FOR MANUFACTURE OR OTHERWISE  
DISCLOSED WITHOUT PRIOR WRITTEN CONSENT OF THE COMPANY.

POLAMCO LTD, WESTON LOCK,  
LOWER BRISTOL ROAD  
BATH BA2 1EP

SHT  
1

DRAWING NO:  
**C6121**

