

# Customer Information Sheet

DRAWING No.: M20-616XX05

SHEET 2 OF 2

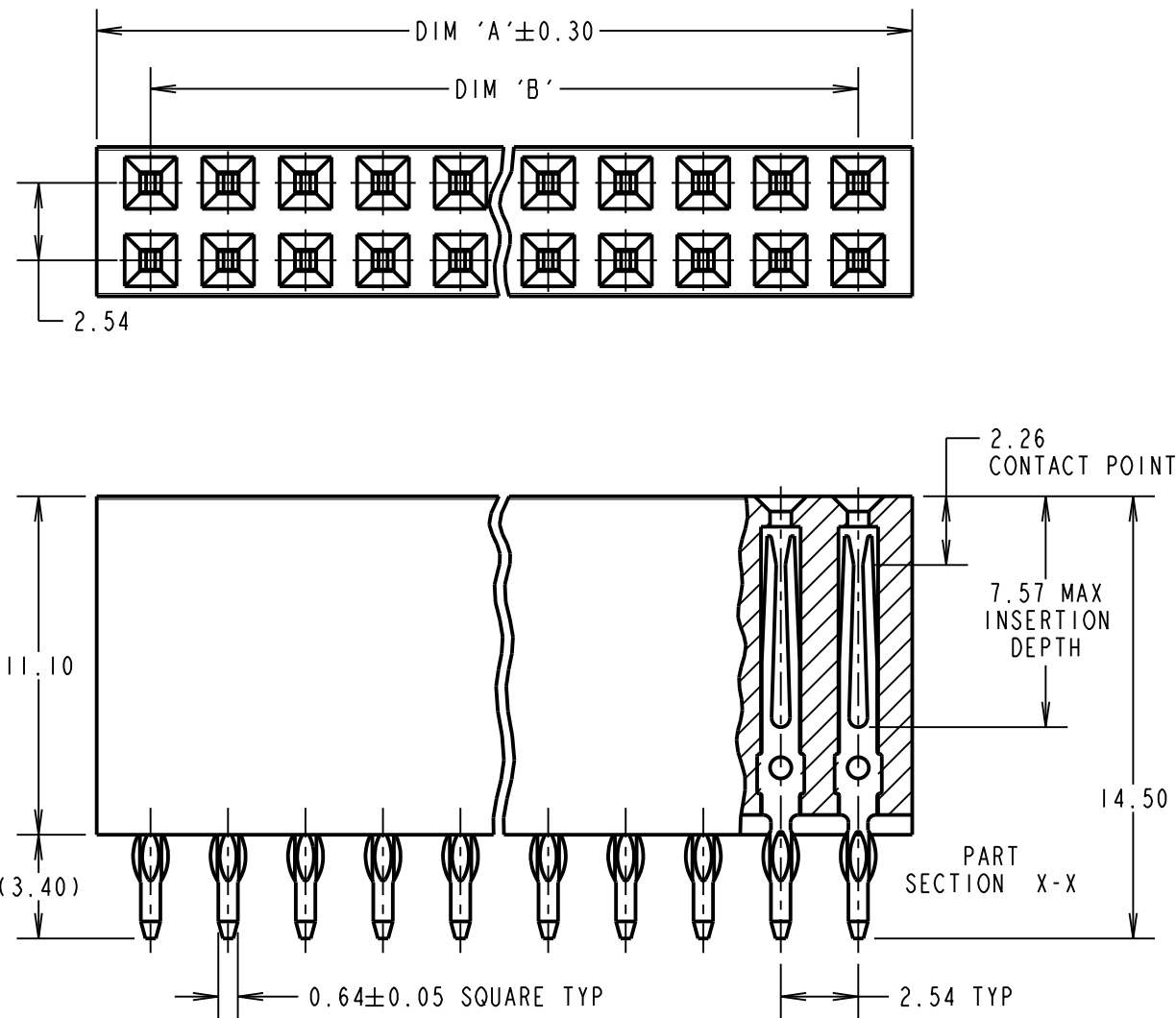
IF IN DOUBT - ASK

©

NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm

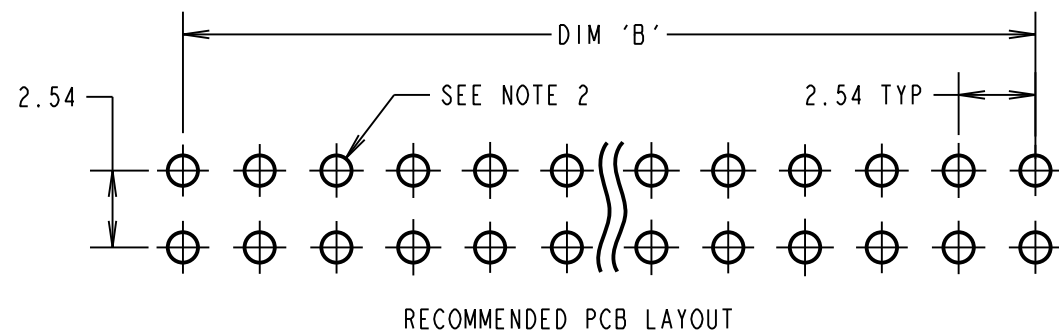
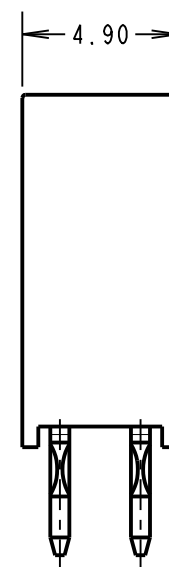


NOTES:

1. ALL TOLERANCES ARE  $\pm 0.20$  UNLESS OTHERWISE STATED.
2. RECOMMENDED PCB PLATED-THROUGH HOLE SIZE:  
 DRILLED HOLE =  $\phi 1.15 \pm 0.02$ mm,  
 PLATING THICKNESSES = 25-75 $\mu$ m COPPER, 3 $\mu$ m MIN NICKEL/GOLD,  
 FINAL PLATED HOLE =  $\phi 1.09$ -1.00mm.

SPECIFICATIONS:

MATERIAL:  
 MOULDING = PPS UL94V-0 BLACK  
 CONTACTS = PHOSPHOR BRONZE  
 FINISH:  
 CONTACTS = 0.25 $\mu$ m GOLD OVER NICKEL  
 ELECTRICAL:  
 CURRENT RATING = 1A MAX  
 VOLTAGE RATING = 12V DC  
 CONTACT RESISTANCE = 30m $\Omega$  MAX  
 INSULATION RESISTANCE = 5,000M $\Omega$  MIN  
 DIELECTRIC STRENGTH = 1000V AC FOR ONE MINUTE  
 MECHANICAL:  
 DURABILITY = 10 OPERATIONS (MATING), 3 OPERATIONS (BOARD)  
 INSERTION FORCE (MATING) = 2N/PIN MAX  
 WITHDRAWAL FORCE (MATING) = 0.25N PIN  
 INSERTION FORCE (BOARD) = 80N/PIN MAX  
 WITHDRAWAL FORCE (BOARD) = 20N/PIN  
 ENVIRONMENTAL:  
 TEMPERATURE RANGE = -55°C TO +105°C  
 PACKING:  
 TUBE  
 FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C039XX (LATEST ISSUE)



PART No.	No. OF WAYS	DIM 'A'	DIM 'B'
M20-6162005	20+20	51.82	48.26
M20-6163205	32+32	82.30	78.74

ORDER CODE:

**M20-616XX05**

No. OF CONTACTS PER ROW: 20, 32

FINISH: 05 = GOLD ALL OVER NICKEL

FM	4	16.04.18	21227
NAME	ISS.	DATE	C/NOTE
APPROVED: F. MCGOWAN			
CHECKED: M. PLESTED			
DRAWN: W. J. BOURNE			
CUSTOMER REF.:			
ASSEMBLY DRG:			

**HARWIN**

www.harwin.com  
 technical@harwin.com

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TOLERANCES  
~~X. =  $\pm 1$ mm~~  
~~X.X =  $\pm 0.50$ mm~~  
~~X.XX =  $\pm 0.10$ mm~~  
~~X.XXX =  $\pm 0.01$ mm~~  
 ANGLES =  $\pm 5^\circ$   
 UNLESS STATED

MATERIAL: SEE ABOVE  
 FINISH: SEE ABOVE  
 S/AREA: mm<sup>2</sup>

TITLE: PC104 PRESS-FIT CONNECTOR (NON-STACKTHROUGH)  
 DRAWING NUMBER: **M20-616XX05**  
 SHT 2 OF 2

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