

# Customer Information Sheet

DRAWING No.: M20-615XX05

SHEET 2 OF 2

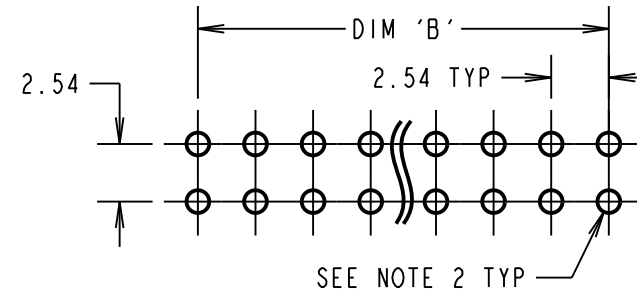
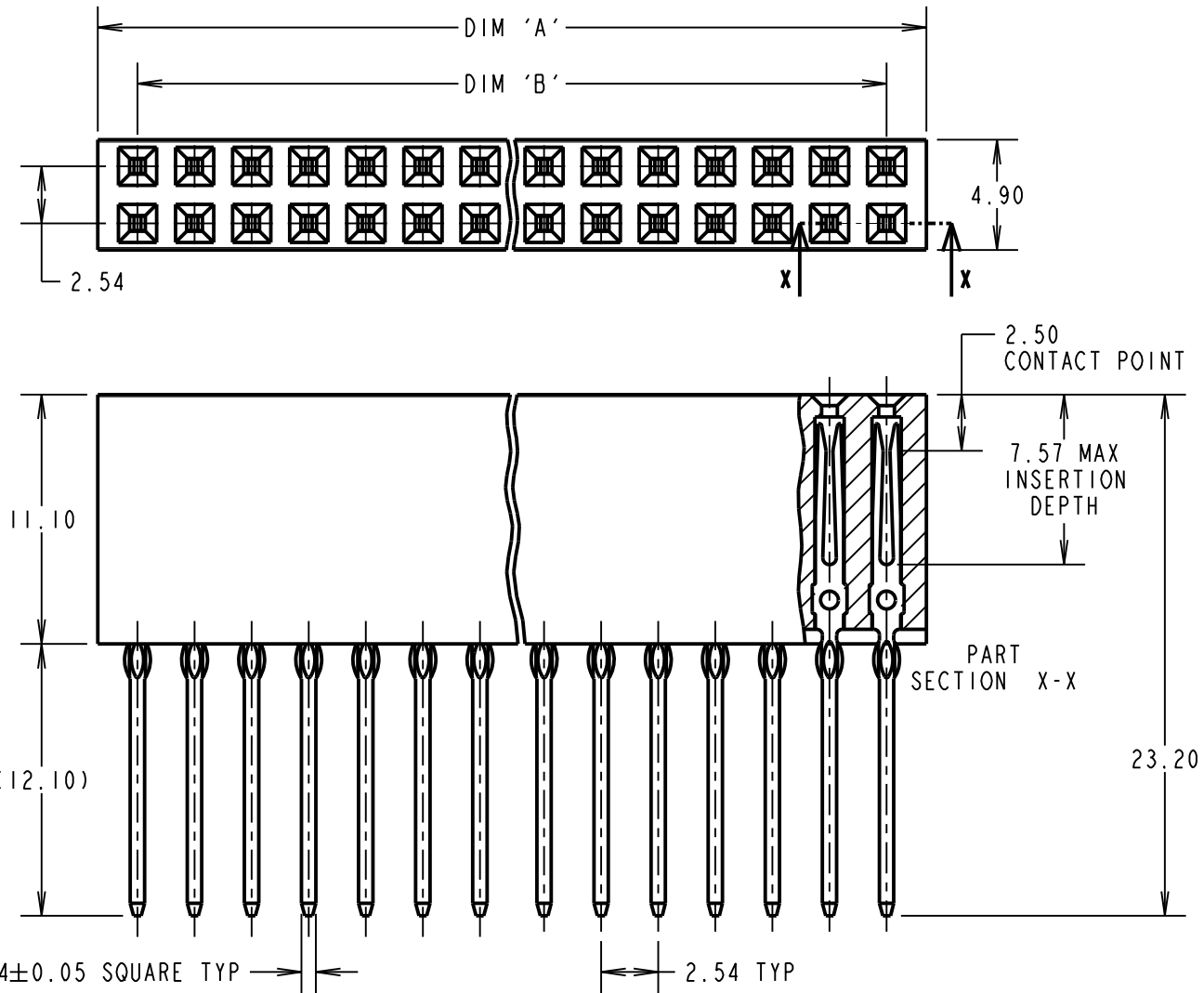
IF IN DOUBT - ASK

©

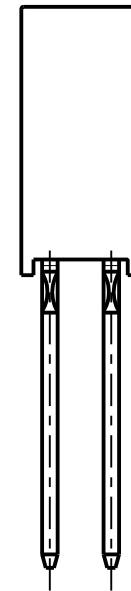
NOT TO SCALE

THIRD ANGLE PROJECTION

ALL DIMENSIONS IN mm



## CONNECTOR DETAIL

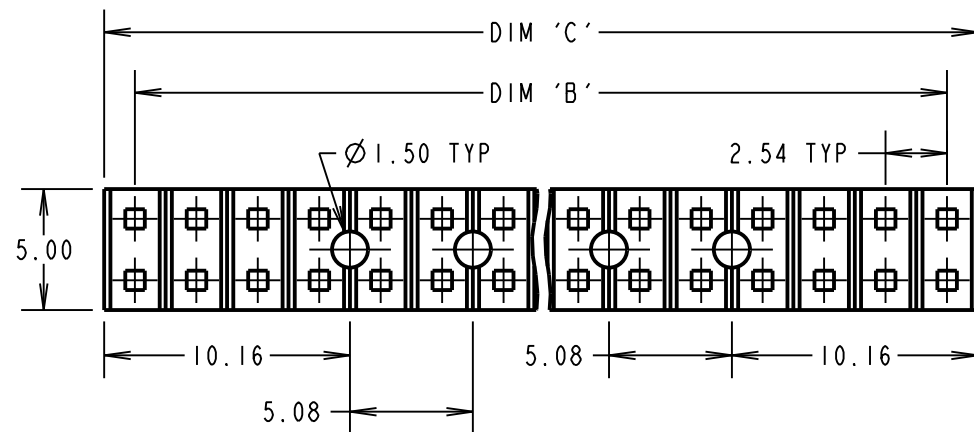


## SPECIFICATIONS:

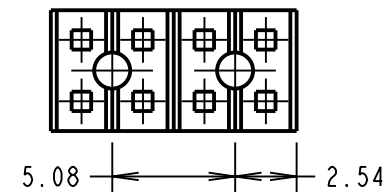
- MATERIAL:  
 MOULDING = PPS UL94V-0 BLACK  
 CONTACTS = PHOSPHOR BRONZE
- FINISH:  
 CONTACTS = 0.25µm GOLD OVER NICKEL
- ELECTRICAL:  
 CURRENT RATING = 1A MAX  
 CONTACT RESISTANCE = 30mΩ MAX  
 INSULATION RESISTANCE = 5,000 MΩ MIN  
 DIELECTRIC STRENGTH = 1000V AC FOR ONE MINUTE
- MECHANICAL:  
 DURABILITY = 10 OPERATIONS  
 INSERTION FORCE (CONTACT) = 2N/PIN MAX  
 WITHDRAWAL FORCE (CONTACT) = 0.25N/PIN MIN  
 INSERTION FORCE (BOARD) = 80N/PIN MAX  
 WITHDRAWAL FORCE (BOARD) = 20N/PIN MIN
- ENVIRONMENTAL:  
 TEMPERATURE RANGE = -55°C TO +105°C
- PACKING:  
 TUBE FOR CONNECTOR & PLASTIC BAG FOR SPACER FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C039XX (LATEST ISSUE)

## NOTES:

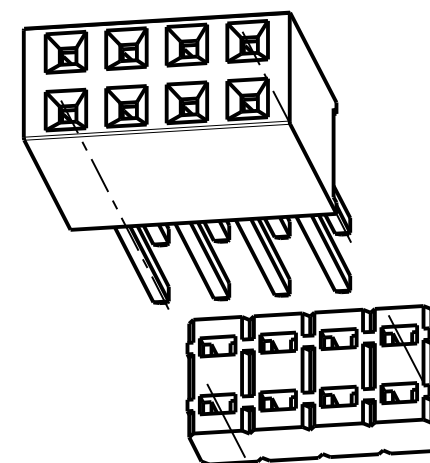
- ALL TOLERANCES ARE ±0.20 UNLESS OTHERWISE STATED.
- RECOMMENDED PCB PLATED-THROUGH HOLE SIZE:  
 DRILLED HOLE =  $\varnothing 1.15 \pm 0.02$ mm,  
 PLATING THICKNESSES = 25-75µm COPPER, 3µm MIN NICKEL/GOLD,  
 FINAL PLATED HOLE =  $\varnothing 1.09$ -1.00mm.



HOLE DETAIL FOR 04 CONTACT PER ROW SPACER



## SPACER DETAIL



## CONNECTOR/SPACER COMPONENT (04 SIZE SHOWN)

PART No.	No. OF CONTACTS PER ROW	DIM 'A'	DIM 'B'	DIM 'C'
M20-6150405	04	11.18	7.62	10.16
M20-6152005	20	51.82	48.26	50.80
M20-6153205	32	82.30	78.74	81.28

ORDER CODE:

**M20-615XX05**

No. OF CONTACTS PER ROW:  
 04, 20, 32

FINISH:  
 05 = GOLD ALL OVER NICKEL

FM	10	16.04.18	21227
NAME	ISS.	DATE	C/NOTE
APPROVED: F. MCGOWAN			
CHECKED: M. PLESTED			
DRAWN: W. J. BOURNE			
CUSTOMER REF.:			
ASSEMBLY DRG:			

**HARWIN**

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TOLERANCES  
~~X = ±1mm~~  
~~X.X = ±0.50mm~~  
~~X.XX = ±0.10mm~~  
~~X.XXX = ±0.01mm~~  
 ANGLES = ±5°  
 UNLESS STATED

MATERIAL:

SEE ABOVE

FINISH:

SEE ABOVE

S/AREA:

mm<sup>2</sup>

TITLE:

PC104 PRESS-FIT CONNECTOR & SPACER (STACKTHROUGH)

DRAWING NUMBER:

**M20-615XX05**

SHT  
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