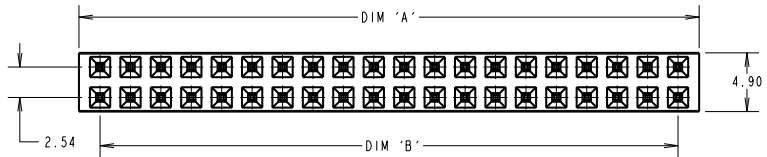


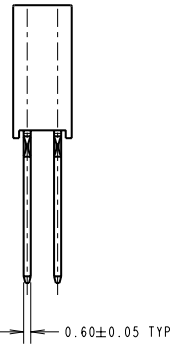
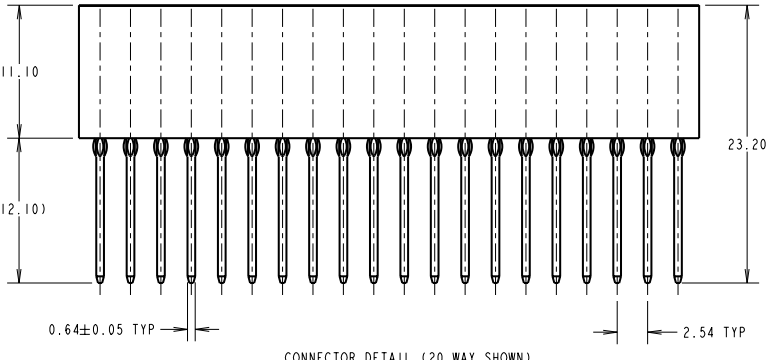
# Customer Information Sheet

DRAWING No.: M20-615XX05 SHEET 2 OF 2 IF IN DOUBT - ASK (C) NOT TO SCALE THIRD ANGLE PROJECTION ALL DIMENSIONS IN mm

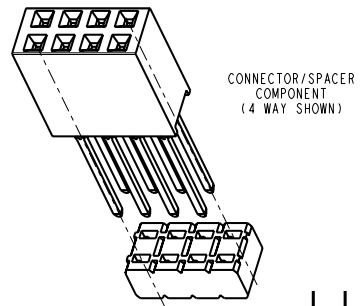


PART No.	No. OF WAYS	DIM 'A'	DIM 'B'	DIM 'C'
M20-6150405	4+4	11.18	7.62	10.16
M20-6152005	20+20	51.82	48.26	50.80
M20-6153205	32+32	82.30	78.74	81.28

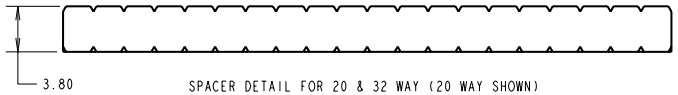
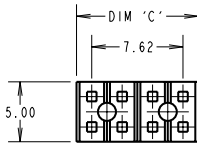
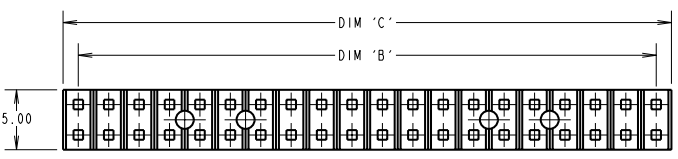
**SPECIFICATIONS:**  
**MATERIAL:**  
 MOULDING = PPS UL94V-0 BLACK  
 CONTACTS = PHOSPHOR BRONZE  
**FINISH:**  
 CONTACTS = 0.25µ GOLD OVER NICKEL  
**ELECTRICAL:**  
 CURRENT RATING = 1 AMP MAX  
 VOLTAGE RATING = 12V DC  
 CONTACT RESISTANCE = 30 mΩ MAX, 50 mΩ MAX AFTER CONDITIONING  
 INSULATION RESISTANCE = 5,000 MΩ MIN  
 DIELECTRIC STRENGTH = 1000V AC FOR 1 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



- NOTES:**
- ALL TOLERANCES ARE ±0.20 UNLESS OTHERWISE STATED.
  - FOR COMPLETE SPECIFICATION, SEE COMPONENT SPECIFICATION C039XX (LATEST ISSUE).
  - RECOMMENDED PCB PLATED-THROUGH HOLE SIZE:  
 DRILLED HOLE =  $\varnothing 1.15 \pm 0.02$ mm,  
 PLATING THICKNESSES = 25-75µ COPPER, 3µ MIN NICKEL/GOLD,  
 FINAL PLATED HOLE =  $\varnothing 1.09 - 1.00$ mm.
  - CONTACT DEPTH = 2.63mm.



CONNECTOR/SPACER COMPONENT (4 WAY SHOWN)



SPACER DETAIL FOR 20 & 32 WAY (20 WAY SHOWN)



SPACER DETAIL FOR 4 WAY

ORDER CODE:  
**M20-615XX05**  
 No. OF WAYS PER ROW  
 04, 20, 32

CP	8	03.12.09	10582
NAME	ISS.	DATE	C/NOTE
APPROVED: C.PENROSE			
CHECKED: R.ADEE			
DRAWN: W. J. BOURNE			
CUSTOMER REF.:			
ASSEMBLY DRG:			

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HARWIN USA TEL: 603 893 5376 FAX: 603 893 5396 mis@harwin.com	HARWIN Europe (UK) TEL: 023 9231 4545 FAX: 023 9231 4590 mis@harwin.co.uk	HARWIN Asia TEL: +65 6 779 4909 FAX: +65 6 779 3868 mis@harwin.com.sg					