

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0830009503
Status: Active
Overview: commercial_microd
Description: 1.27mm (.050") Pitch Ulti-Mate™ Commerical Micro D, Cable Receptacle Kit, 9|25|15 Circuits

Documents:
[Packaging Specification \(PDF\)](#)
[Drawing \(PDF\)](#)
[RoHS Certificate of Compliance \(PDF\)](#)

General	
Product Family	I/O Connectors
Series	83000
Application	Wire-to-Board
Component Type	Receptacle
Overview	commercial_microd
Product Literature Order No	USA-063
Product Name	Commercial Micro-D
Type	N/A
Physical	
Circuits (Loaded)	1
Circuits (maximum)	1
Durability (mating cycles max)	500
Lock to Mating Part	Yes
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Orientation	N/A
PCB Retention	N/A
Packaging Type	Reel
Panel Mount	No
Pitch - Mating Interface (in)	0.050 In
Pitch - Mating Interface (mm)	1.27 mm
Plating min: Mating (µin)	5
Plating min: Mating (µm)	0.125
Plating min: Termination (µin)	50
Plating min: Termination (µm)	1.25
Polarized to Mating Part	Yes
Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	-55°C to +70°C
Termination Interface: Style	Crimp or Compression
Wire Size AWG	26, 28

Electrical	
Current - Maximum per Contact	3A
Shielded	Yes
Voltage - Maximum	350V

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-83000-005
Sales Drawing	SD-83000-002

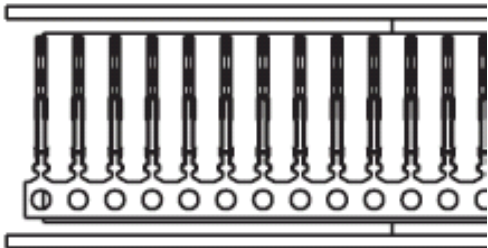


image - Reference only Series

EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Halogen-Free

China RoHS

Need more information on product environmental compliance?

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
83000Series

Mates With
83611 , 83619 , 83612 , 83614

Application Tooling | FAQ
Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.

Description	Product #
Hand Crimp Tool	0638114800
T2 Terminator Die	0638522000
FineAdjust™ Applicator	0638622000

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

MATERIAL NUMBER	ENGINEERING NUMBER
SEE SHT 1	SEE SHT 1

F

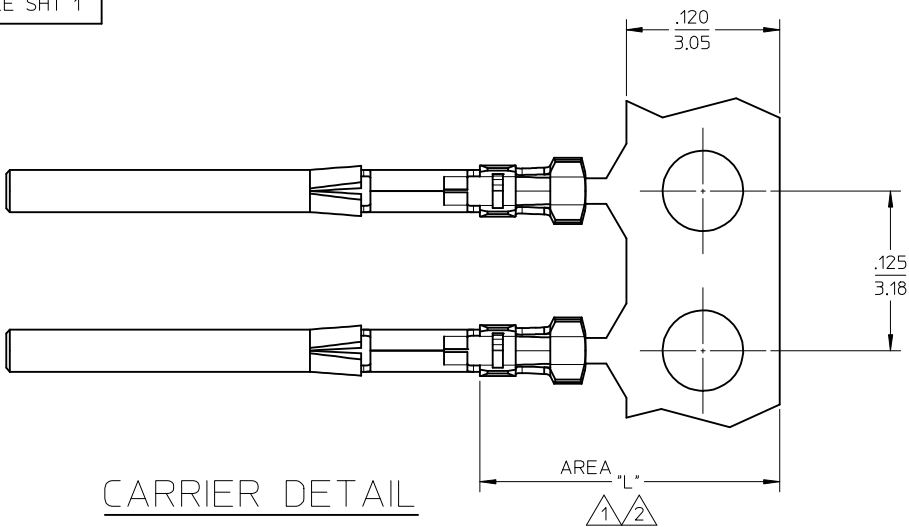
E

D

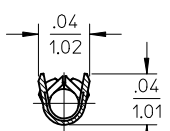
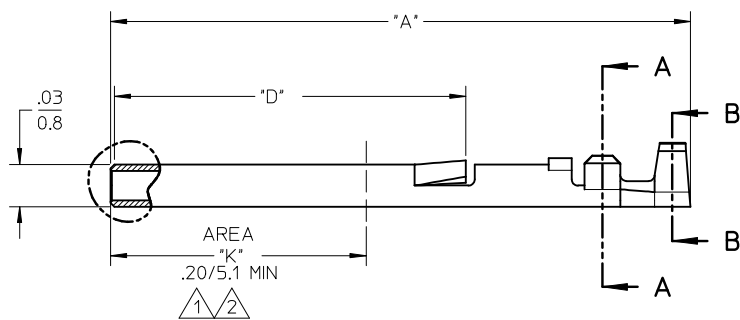
C

B

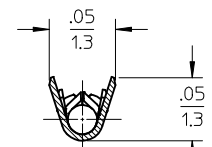
A



CARRIER DETAIL



SECTION A-A
SCALE: NONE



SECTION B-B
SCALE: NONE

SALES DRAWING

REDRAWN EC NO: WNA2008-0145 DRWN: BRUPERT 2008/10/17 CHKD: APPR: JFMURPHY 2008/11/12 REV	DESCRIPTION	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 10:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION			
					DRAWN BY BRE	DATE 02/01/22	CONTACT, SOCKET, COMM. MICRO-D					
					CHECKED BY HEB	DATE 02/01/22						
					APPROVED BY RWD	DATE 02/01/22						
			ANGULAR ±1/2°		MATERIAL NO.		DOCUMENT NO.					SHEET NO.
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART		SD-83000-002					1 OF 2
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

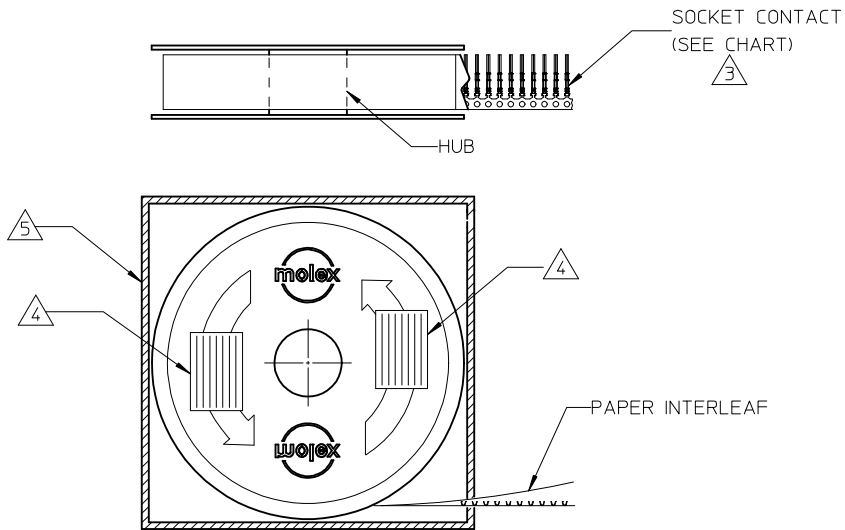
10	9	8	7	6	5	4	3	2	1
MATERIAL NUMBER	ENGINEERING NUMBER	DESCRIPTION	FINISH	A	D				
830009502	83000-9502	2.5 K PER REEL		.456/(11.58) (SEE SHT 2)	.278/(7.06) (SEE SHT 2)				
830009503	83000-9503	50.0 K PER REEL							
830000083	83000-0083	LOOSE PIECE TERMINAL							
830009550	83000-9550	2.5 K PER REEL							
830009547	83000-9547	2.5 K PER REEL		.426/(10.82) (SEE SHT 2)	.248/(6.30) (SEE SHT 2)				
830000106	83000-0106	LOOSE PIECE TERMINAL							
830009557	83000-9557	50.0 K PER REEL		.456/(11.58)	.278/(7.06)				

NOTES:

- FINISH:
- A. NICKEL PLATING 50u IN MIN THICKNESS OVERALL, PER QQ-N-290, CLASS 2.
 - B. FOLLOWED BY 30u IN MIN. GOLD PER MIL-G-45204, TYPE II, GRADE C, IN AREA "K".(SHOWN ON SHT 2)
 - C. FOLLOWED BY 5-10u IN GOLD PER MIL-G-45204, TYPE II, GRADE C IN AREA "K".
 - D. FOLLOWED BY 50u IN TIN PER MIL-T-10727, TYPE I IN AREA "L".(SHOWN ON SHEET 2).
- FINISH: (830009550 & 830009557)

- A. NICKEL PLATING 50u IN MIN THICKNESS OVERALL, PER QQ-N-290, CLASS 2.
- B. FOLLOWED BY 50u IN MIN. GOLD PER MIL-G-45204, TYPE II, GRADE C, IN AREA "K".(SEE SHEET 2)
- C. FOLLOWED BY 50u IN TIN PER MIL-T-10727, TYPE I IN AREA "L".(SHOWN ON SHEET 2).

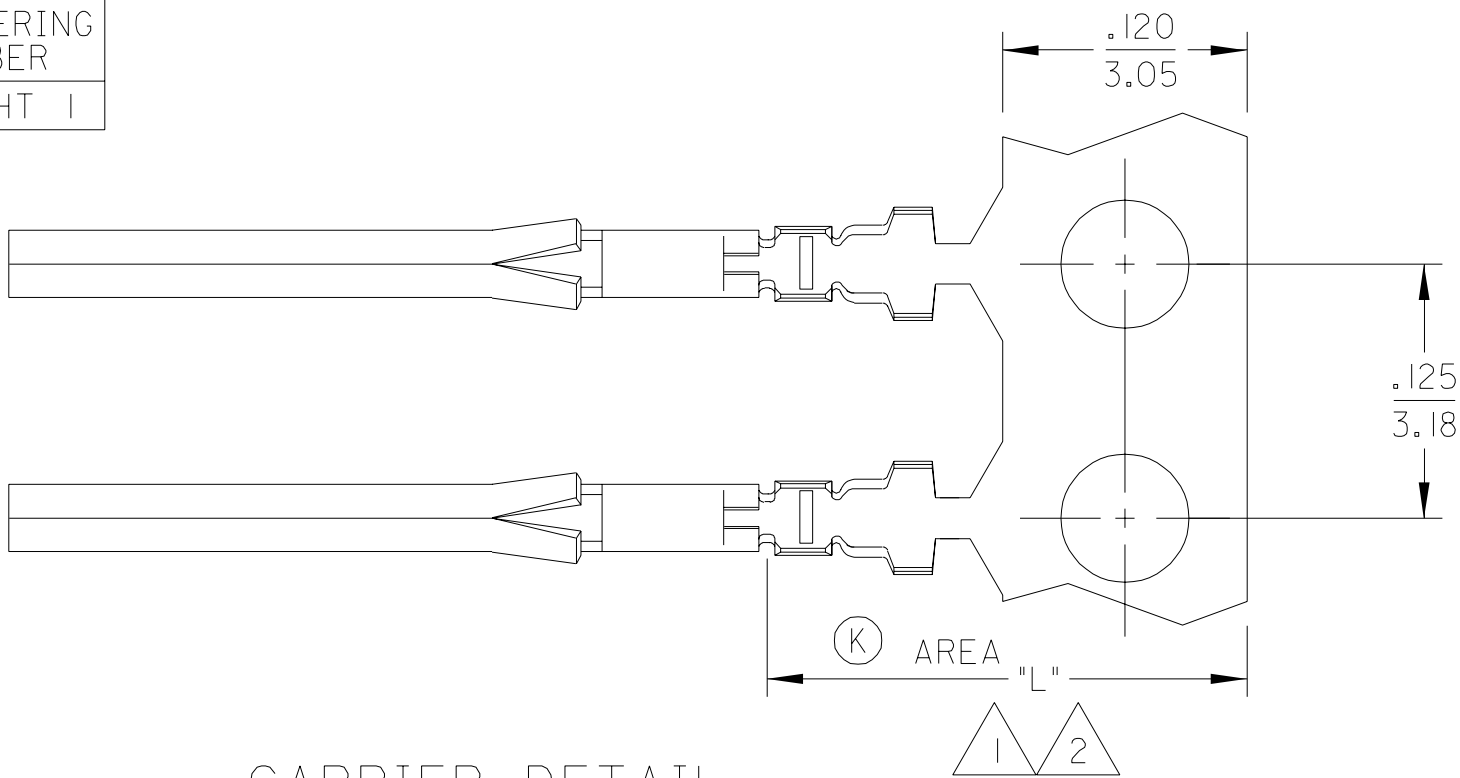
- CONTACT TO BE ORIENTATED AS SHOWN.
- IDENTIFICATION LABELS (2).(REEL).
- IDENTIFICATION LABEL.(SHIPPING BOX).



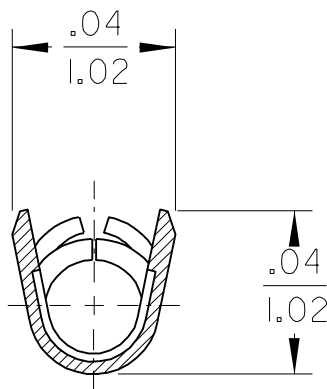
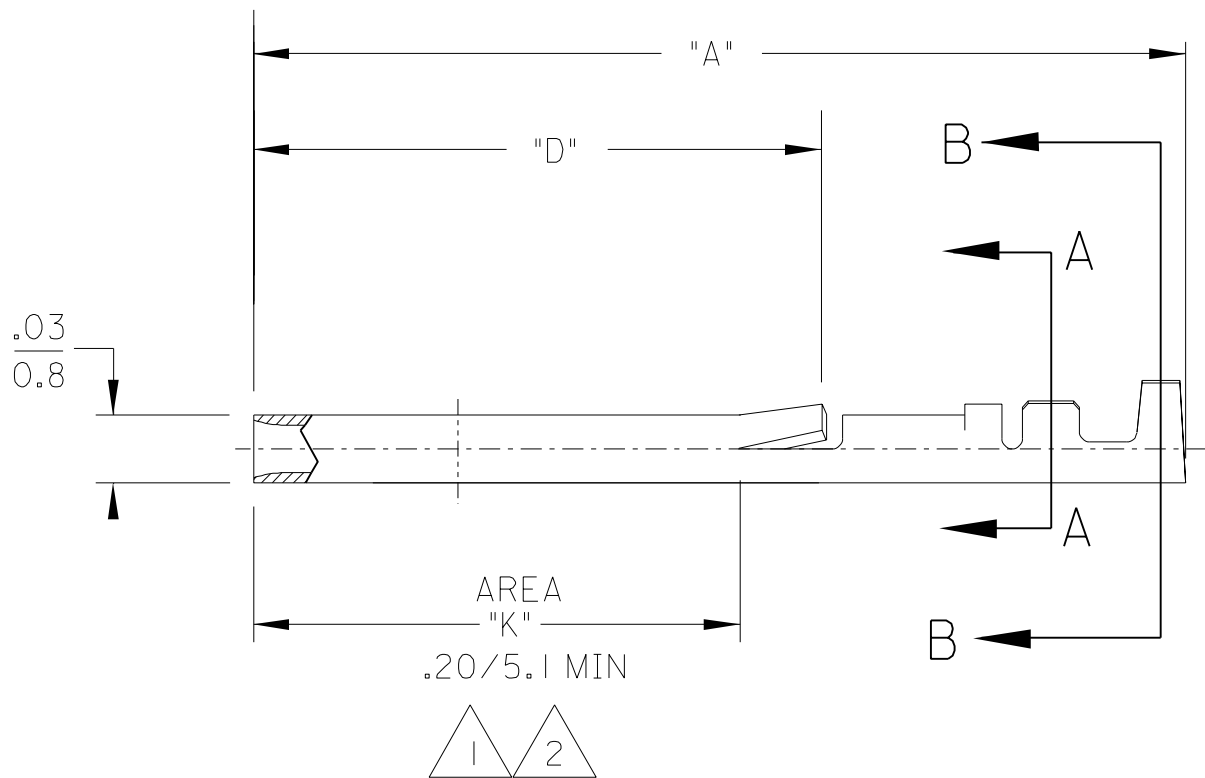
SALES DRAWING

REDRAWN EC NO: WNA2008-0145 DRWN: BRUPERT CHKD: APPR: JF MURPHY REV	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 10:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
					DRAWN BY BRE	DATE 02/01/22	CONTACT, SOCKET, COMM. MICRO-D			
					CHECKED BY HEB	DATE 02/01/22				
					APPROVED BY RWD	DATE 02/01/22	MOLEX MOLEX INCORPORATED			
					MATERIAL NO.		DOCUMENT NO.			SHEET NO.
					SEE CHART		SD-83000-002			2 OF 2
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

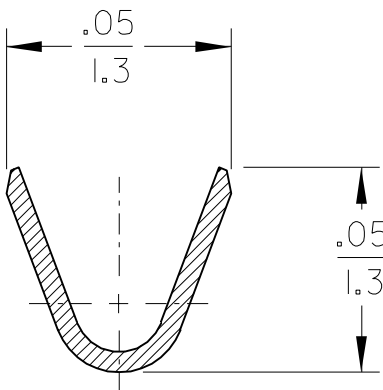
MATERIAL NUMBER	ENGINEERING NUMBER
SEE SHT 1	SEE SHT 1



CARRIER DETAIL



SECTION A-A
SCALE: NONE



SECTION B-B
SCALE: NONE

SALES DRAWING

ETC2003-0182			EC NO. ETC2003-0190			DRWN: BRE 03/01/30			CHK: HEB/JAL 03/01/30			APPR: RWD 03/01/30			DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES: (UNLESS SPECIFIED)			SCALE NO: NE	DESIGN UNITS ☐ mm ☒ INCH			THIRD ANGLE PROJECTION	☐ mm INCH	☒ INCH mm	☐ mm ONLY	REVISE ON CAD ONLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
K	REV	MAJOR  =0	CRITICAL  =0		mm	INCH	DRAWN BY & DATE BRE 02/01/22		TITLE: CONTACT, SOCKET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				4 PLACES	±0.	±.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
				3 PLACES	±0.	±.005	CHECKED BY & DATE HEB 02/01/22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				2 PLACES	±0.13	±.010	APPROVED BY & DATE RWD 02/01/22		MOLEX INCORPORATED																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				1 PLACE	±0.3	±.	CAD FILENAME SD83000002.DGN												MATERIAL NO. SEE CHART		DRAWING NO. SD-83000-002		SHEET NO. 2 OF 2																																																																																																																																																																																																																																																																																																																																																																																																																																																																								