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Part Number: [0879590006](#)
Status: **Active**
Description: 1.27mm (.050") Pitch SAS Multi-Lane Plug, Vertical, Through Hole, with Beveled Metal Pins and Plastic Locating Pegs, 32 Circuits, 3.50mm (.138") Tail Length, Lead-free

Documents:	
3D Model	Product Specification PS-87959-028 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification	
CSA	LR 19980
UL	E29179
General	
Product Family	I/O Connectors
Series	87959
Application	Wire-to-Board
Component Type	Plug
Product Name	SAS
Type	N/A
Physical	
Boot Color	N/A
Circuits (Loaded)	32
Circuits (maximum)	32
Durability (mating cycles max)	50
Flammability	94V-0
Gender	Plug
Lock to Mating Part	None
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.138 In
PC Tail Length (mm)	3.50 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.093 In
PCB Thickness Recommended (mm)	2.36 mm
Packaging Type	Tray
Panel Mount	Yes
Pitch - Mating Interface (in)	0.042 In, 0.064 In, 0.100 In
Pitch - Mating Interface (mm)	1.08 mm, 1.65 mm, 2.54 mm
Pitch - Term. Interface (in)	0.042 In, 0.064 In, 0.100 In
Pitch - Term. Interface (mm)	1.08 mm, 1.65 mm, 2.54 mm
Plating min: Mating (µin)	30
Plating min: Mating (µm)	0.76
Plating min: Termination (µin)	101.6
Plating min: Termination (µm)	2.54
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Ports	1
Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	0°C to +55°C
Termination Interface: Style	Through Hole

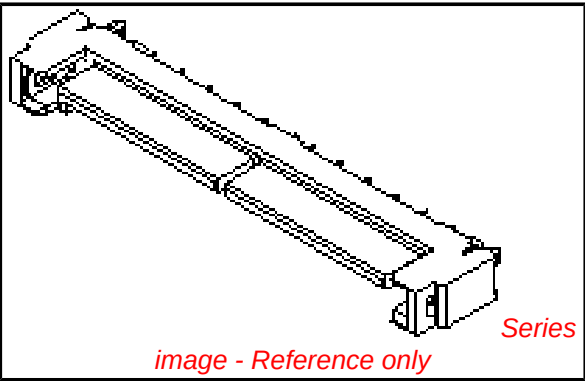


image - Reference only

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.

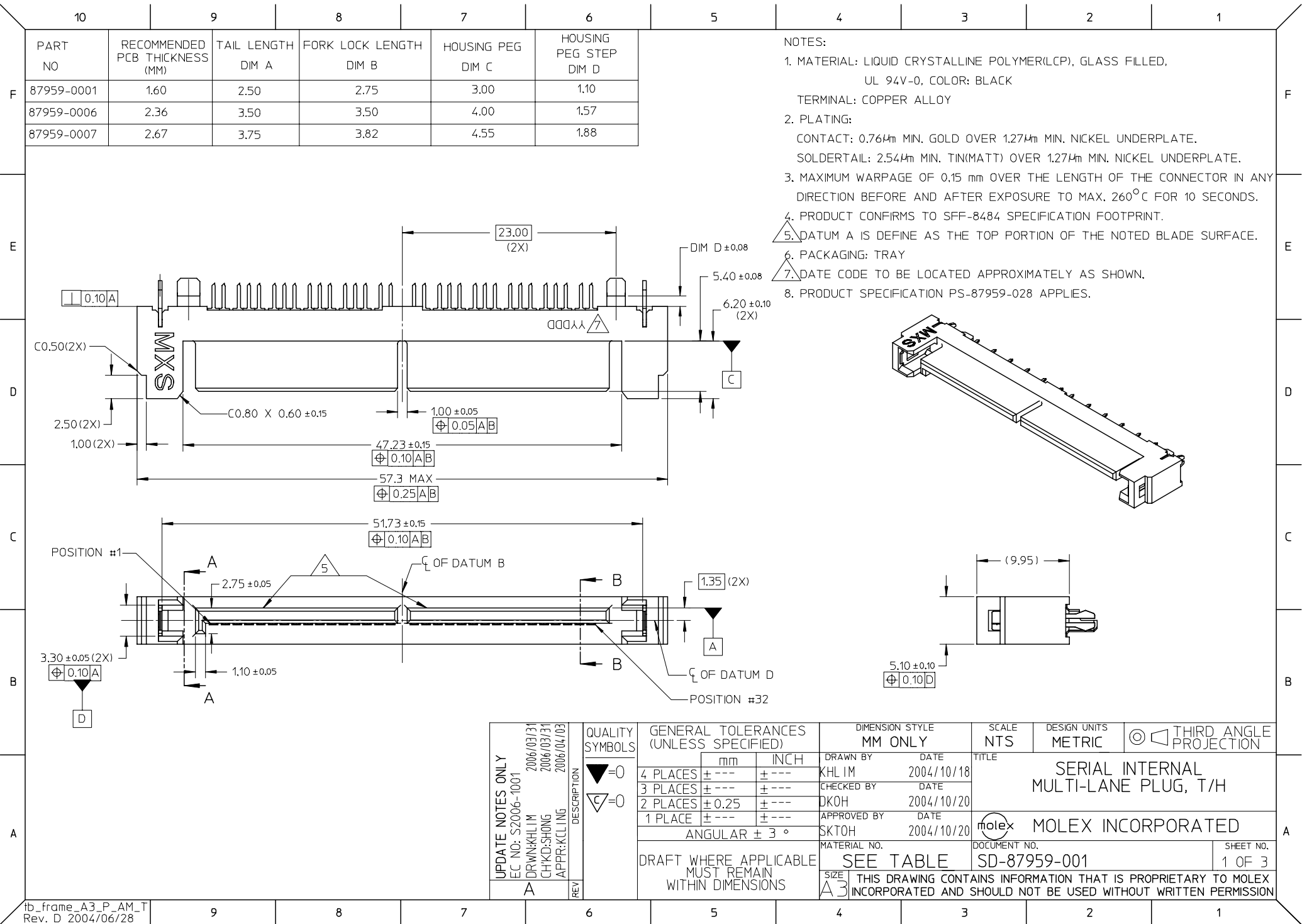
Search Parts in this Series
[87959Series](#)

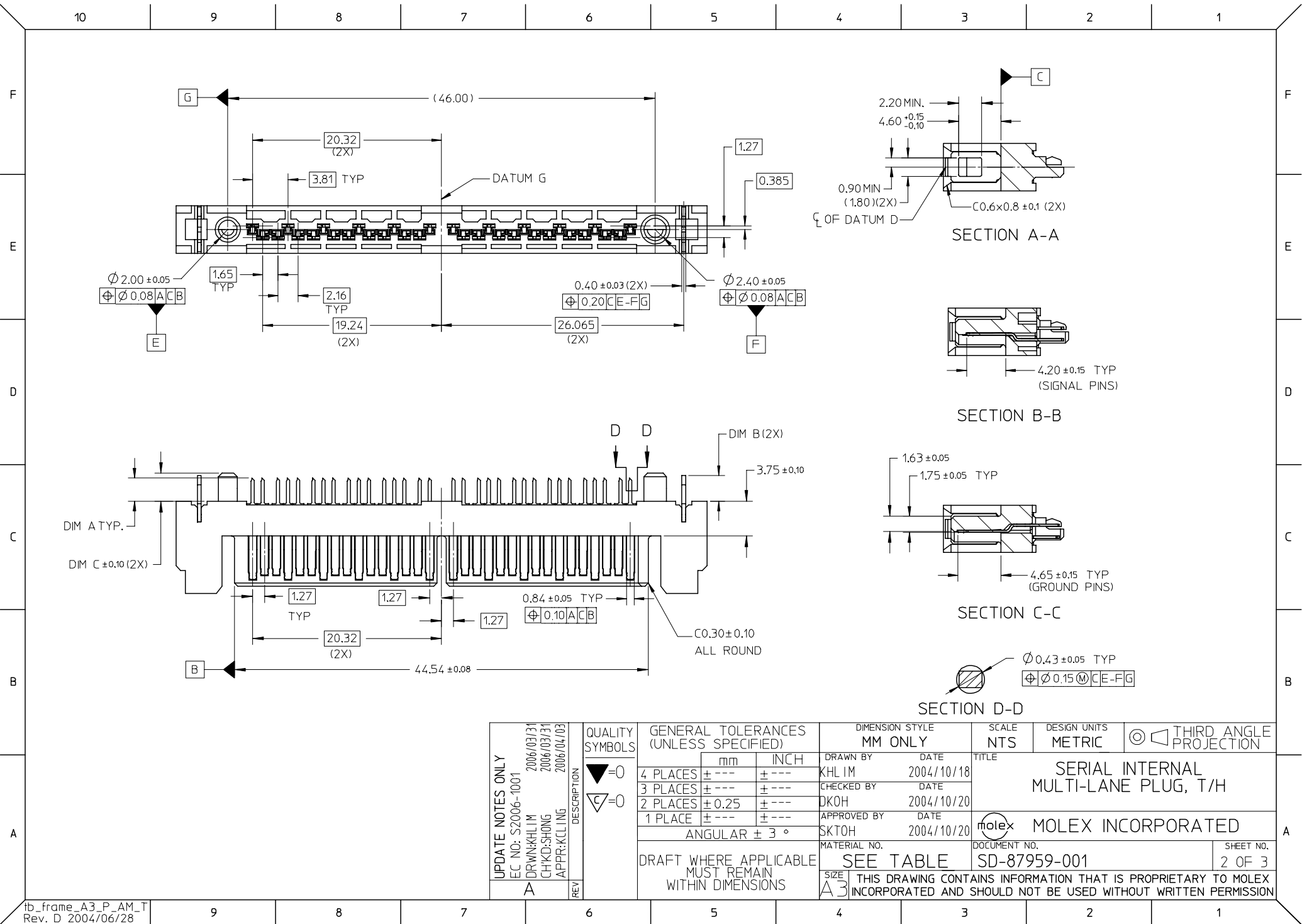
Mates With
SFF-8484 HBA to Backplane Multi-Lane Internal Connectors and Cable

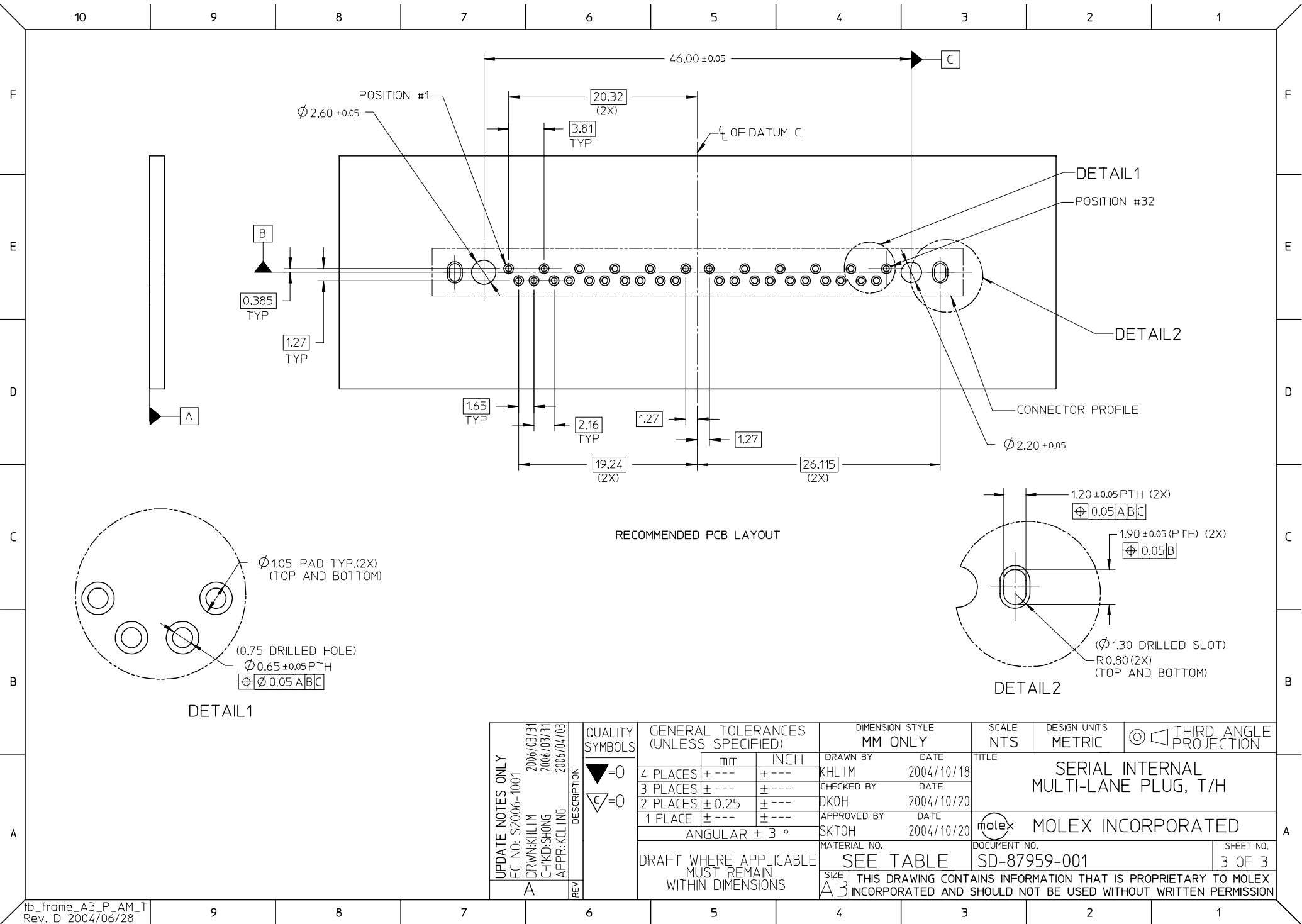
Waterproof / Dustproof	No
Electrical	
Current - Maximum per Contact	1.5A
Shielded	No
Voltage - Maximum	30V
Solder Process Data	
Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	265
Material Info	
Reference - Drawing Numbers	
Product Specification	PS-87959-028
Sales Drawing	SD-87959-001

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UPDATE NOTES ONLY	
EC NO: S2006-1001	2006/03/31
DRWN:KHLIM	2006/03/31
CHKD:SHONG	2006/03/31
APPR:KCLING	2006/04/03
REV	DESCRIPTION
A	

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 3 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
KHL IM	2004/10/18
CHECKED BY	DATE
DKOH	2004/10/20
APPROVED BY	DATE
SKTOH	2004/10/20
MATERIAL NO.	
SEE TABLE	
SIZE	A3

SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
TITLE		
SERIAL INTERNAL MULTI-LANE PLUG, T/H		
molex MOLEX INCORPORATED		
DOCUMENT NO. SD-87959-001		SHEET NO. 3 OF 3
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