

10090099-S094VLF - D-  
Subminiature Economy Range  
: Economy Range Signal 9  
way Socket Right Angle Solder  
US style, 50 cycles, Harpoons  
+ Female Screw UNC 4 - 40 +  
Elec cont.



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## Mating Half

DE09P064TXLF

865609PLTXLF

## Specifications

### General

Contact type	Signal
Gender	Socket
Number of contacts (Total)	9
Orientation	Right Angle
Product Type	Connector
Termination Style	Solder

### Dimensional

Size (Shell)	E
Thickness (Board)	1.6 mm

### Electrical

Current rating	5A Per contact
Resistance (Contact)	< 25 milli-ohms
Voltage rating	250V rms at 50 Hz
Voltage rating (DWV - Dielectric withstanding)	1000V rms

### Mechanical

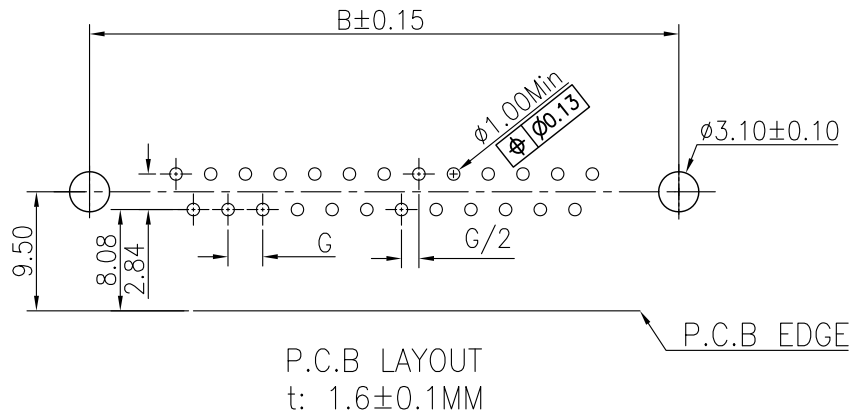
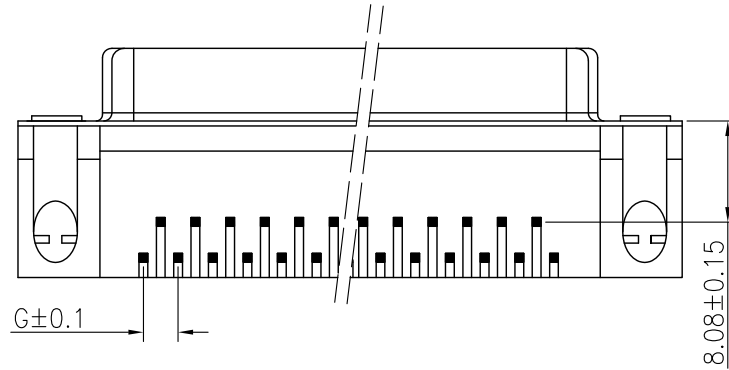
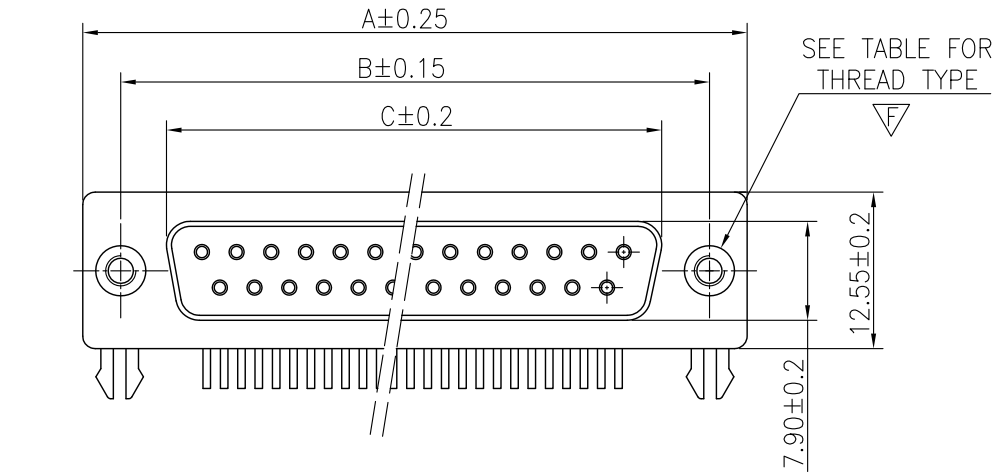
Durability (Plating - Mating cycles)	Std Class (>50 Mating Cycles)
Extraction force (Mating part)	0.3N min. Per contact
Insertion force (Mating part)	5N max. Per contact

### Mounting

Attachment	Board
Mounting accessory	Harpoons + Female Screw UNC 4 - 40 + Elec cont.
Termination	US style

### Physical

<b>Plating (Contact)</b>	Gold over Nickel
<b>Plating (Shell)</b>	Bright Tin over Nickel
<b>Plating (Termination)</b>	Matte Tin over Nickel
<b>Temperature (Operating - range)</b>	-55°C to +105°C
<b>Approvals / Certifications</b>	
<b>Approvals / Certifications</b>	UL / CSA In Process



REMARK:

1.CHARACTERISTICS:

RATED VOLTAGE: 250V  
RATED CURRENT: 5AMP  
CONTACT RESISTANCE: 25mohms MAX.INITIAL;40mohmsMAX.AFTER.  
INSULATION RESISTANCE: 5000Mohms MIN.at 500V DC  
DIELECTRIC STRENGTH: 1000VRMS  
OPERATING TEMPERATURE RANGE: -55°C~105°C  
INSERTION/EXTRACTION FORCE PER CONTACT :5N Max./0.3N Min.  
MATING/UNMATING CYCLES :50MATINGS MIN.

2.MATERIAL:

INSULATORS: GLASS-FILLED THERMOPLASTIC UL94V-0, COLOR IN BLACK.  
CONTACTS: COPPER ALLOY, SELECTIVE GOLD ON CONTACT AREA,  
100u" Min MATTE TIN TOP OVER SOLDER AREA,  
30u" Min NICKEL UNDER PLATE.  
SHELL: STEEL,100u" Min NICKEL TOP OVER,  
50u" Min COPPER UNDER PLATE.  
BOARD LOCK :COPPER ALLOY,100u" Min MATTE TIN PLATED.

3. PART NUMBER DESCRIPTION:

10090099-S XX X X LF

SERIES NO.

TYPE

S: SOCKET (FEMALE)

NUMBER OF CONTACTS

09: 9-PIN

15: 15-PIN

25: 25-PIN

37: 37-PIN

LF: ROHS COMPLIANT

FLANGE MOUNTING OPTION

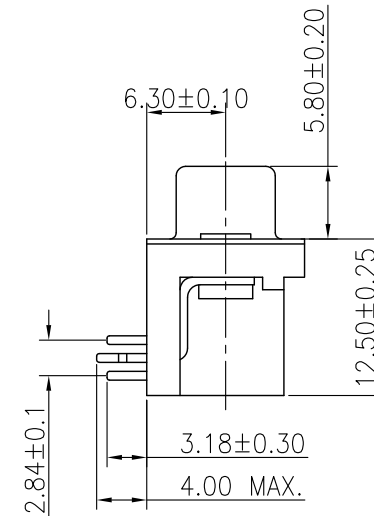
X: UNC #4-40 CLINCHNUTS

L: M3 CLINCHNUTS

CONTACT FINISH

4: GOLD FLASH

6: 30u" PLATING OPTION  
AVAILABLE ON REQUEST

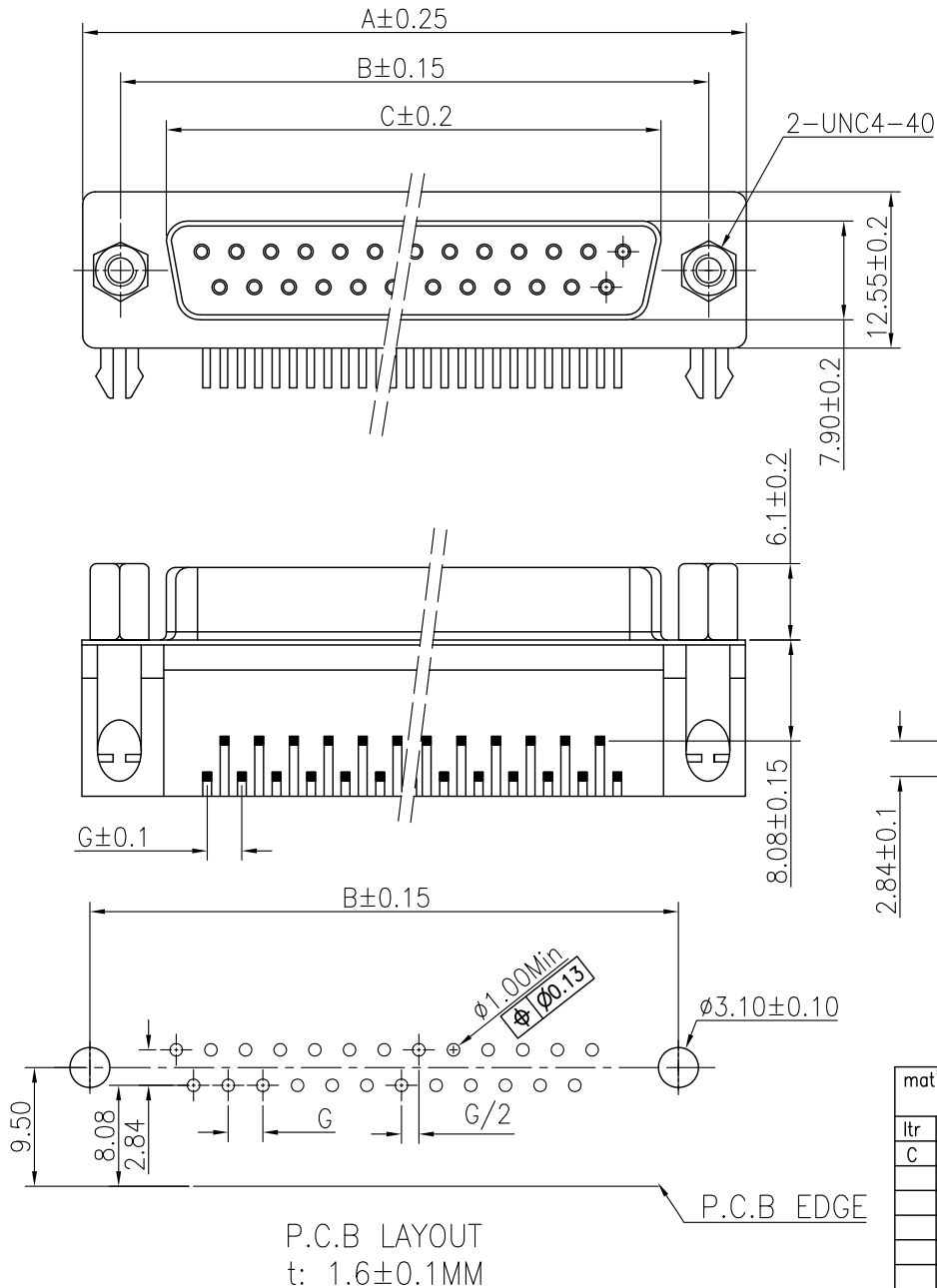


POS.	PART NO.		THREAD TYPE	
09P	10090099-S09*LLF		M3X0.5	
15P	10090099-S15*LLF		M3X0.5	
25P	10090099-S25*LLF		M3X0.5	
37P	10090099-S37*LLF		M3X0.5	
09P	10090099-S09*XLf		UNC 4-40	
15P	10090099-S15*XLf		UNC 4-40	
25P	10090099-S25*XLf		UNC 4-40	
37P	10090099-S37*XLf		UNC 4-40	
POS.	A	B	C	G
09P	30.81	24.99	16.33	2.74
15P	39.24	33.32	24.66	2.74
25P	53.04	47.04	38.38	2.77
37P	69.32	63.50	54.84	2.77

mat'l. code				tolerances unless otherwise specified		CUSTOMER COPY		FCI	
ltr	ecn no	dr	date	linear	.X ± 0.38	projection	title	www.fciconnect.com	
A	T09-1033	J.H	3/12/09		.XX ± 0.25				
B	T09-1044	J.H	4/2/09		.XXX ± 0.10				
C	ELX-I-13433	AB	9/11/12	angles	0° ± 2°	MM	D-SUB FEMALE RIGHT-ANGLE US STYLE	product family D-SUB	
				dr	JASON HSU 3/12/09				
				enrg	JASON HSU 3/12/09				
				chr	ALIAS BABU 9/11/12	scale	size dwg no	code TWN	
				appd	MITHUN PAUL 9/11/12				
sheet index	revision sheet	C 1	C 2						

cage code

22526



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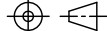
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 SHELL: STEEL,100u" Min NICKEL TOP OVER,  
 50u" Min COPPER UNDER PLATE.  
 BOARD LOCK :COPPER ALLOY,100u" Min MATTE TIN PLATED.  
 SCREW LOCK: COPPER ALLOY, 100u" Min BRIGHT NICKEL PLATED.

## 3. PART NUMBER DESCRIPTION:

SERIES NO. 10090099-S XX X X LF  
 TYPE S: SOCKET (FEMALE)  
 NUMBER OF CONTACTS 09: 9-PIN  
 15: 15-PIN  
 25: 25-PIN  
 37: 37-PIN  
 LF: ROHS COMPLIANT  
 FLANGE MOUNTING OPTION V: UNC #4-40 SCREWLOCKS  
 CONTACT FINISH A  
 4: FLASH GOLD  
 6: 30u" PLATING OPTION AVAILABLE ON REQUEST

POS.	PART NO.	A	B	C	G
09P	10090099-S09*VLF	30.81	24.99	16.33	2.74
15P	10090099-S15*VLF	39.24	33.32	24.66	2.74
25P	10090099-S25*VLF	53.04	47.04	38.38	2.77
37P	10090099-S37*VLF	69.32	63.50	54.84	2.77

mat'l. code				tolerances unless otherwise specified				CUSTOMER COPY		<div>FCI</div> <div>www.fciconnect.com</div>				
ltr	ecn no	dr	date	linear	.X ± 0.38			projection		title D-SUB FEMALE RIGHT-ANGLE US STYLE				
C					.XX ± 0.25									
					.XXX ± 0.10									
				angles	0° ±2°									
				dr	JASON HSU	3/12/09	<div>MM</div>	product family			D-SUB		code	
				engr	JASON HSU	3/12/09		size	dwg no		TWN			
				chr	ALIAS BABU	9/11/12								
				appd	MITHUN PAUL	9/11/12	scale	1:1		A4		sheet 2 of 2		
sheet index	revision sheet													