

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

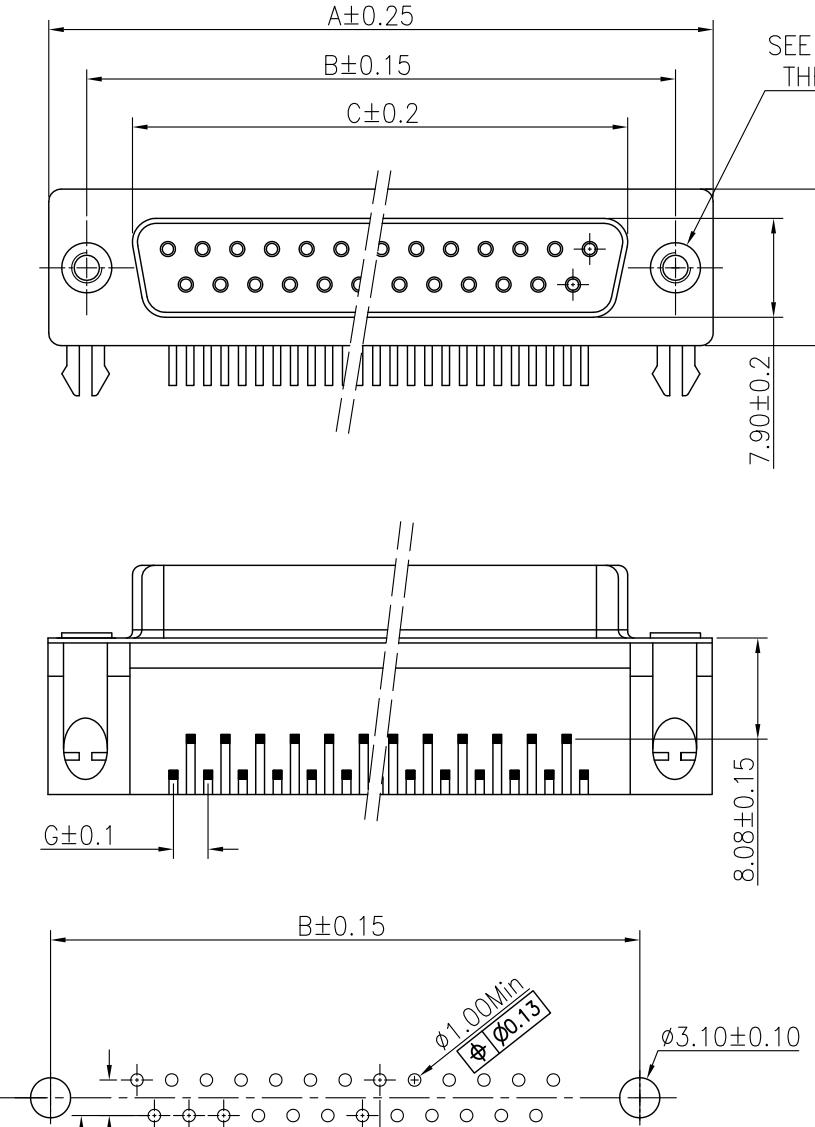
Durability (Plating - Mating cycles)	Std Class (>50 Mating Cycles)
Extraction force (Mating part)	0.3N min. Per contact
Insertion force (Mating part)	5N max. Per contact

#### 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



P.C.B LAYOUT  
t:  $1.6 \pm 0.1$ MM

REMARK:

1. CHARACTERISTICS:

RATED VOLTAGE: 250V

RATED CURRENT: 5AMP

CONTACT RESISTANCE: 25mohms MAX.INITIAL; 40mohms MAX.AFTER.

INSULATION RESISTANCE: 5000Mohms MIN.at 500V DC

Dielectric Strength: 1000V RMS

OPERATING TEMPERATURE RANGE: -55°C~105°C

INSERTION/EXTRACTION FORCE PER CONTACT: 5N Max./0.3N Min.

MATING/UNMATING CYCLES: 50MATING MIN.

2. MATERIAL:

INSULATORS: GLASS-FILLED THERMOPLASTIC UL94V-0, COLOR IN BLACK.

CONTACTS: COPPER ALLOY, SELECTIVE GOLD ON CONTACT AREA,

100μ" Min MATTE TIN TOP OVER SOLDER AREA,

30μ" Min NICKEL UNDER PLATE.

SHELL: STEEL, 100μ" Min NICKEL TOP OVER,

50μ" Min COPPER UNDER PLATE.

BOARD LOCK: COPPER ALLOY, 100μ" Min MATTE TIN PLATED.

3. PART NUMBER DESCRIPTION:

10090099-S XX X X LF

SERIES NO. \_\_\_\_\_

LF: ROHS COMPLIANT

TYPE \_\_\_\_\_

FLANGE MOUNTING OPTION

S: SOCKET (FEMALE)

X: UNC #4-40 CLINCHNUTS

NUMBER OF CONTACTS \_\_\_\_\_

L: M3 CLINCHNUTS

09: 9-PIN

CONTACT FINISH

15: 15-PIN

4: GOLD FLASH

25: 25-PIN

6: 30μ" PLATING OPTION

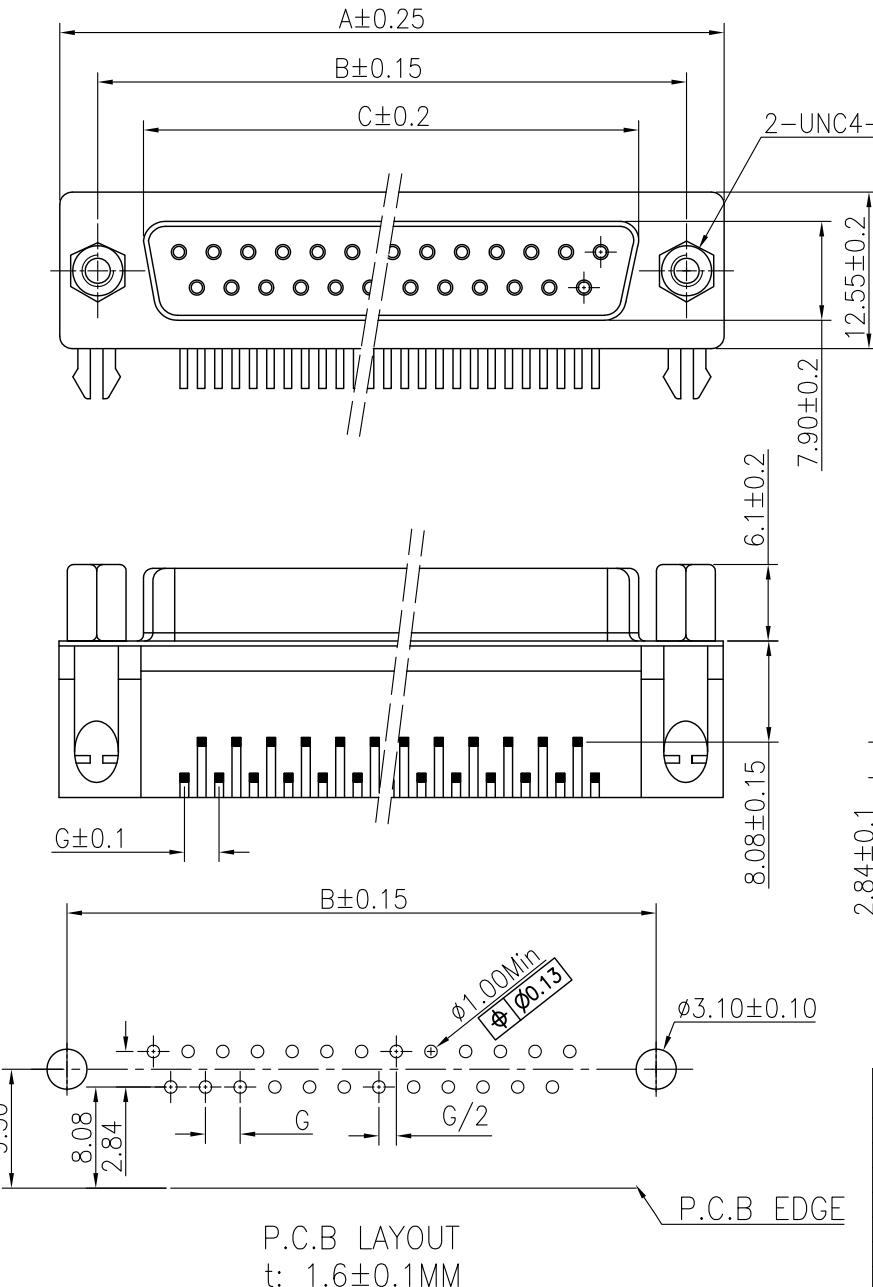
37: 37-PIN

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

litr	ecn no	dr	date	mat'l. code			tolerances unless otherwise specified	CUSTOMER COPY	product family	D-SUB	code
				linear	.X ± 0.38	projection			title		
A	T09-1033	J.H	3/12/09		.XX ± 0.25				D-SUB FEMALE RIGHT-ANGLE		
B	T09-1044	J.H	4/2/09		.XXX ± 0.10				US STYLE		
C	ELX-I-13433	AB	9/11/12	angles	0° ±2°						
				dr	JASON HSU	3/12/09	MM		product family	D-SUB	code
				engr	JASON HSU	3/12/09			size		TWN
				chr	ALIAS BABU	9/11/12	scale		dwg no		sheet
				appd	MITHUN PAUL	9/11/12	1:1			A4	1 of 2
sheet index	revision sheet	C	C								
		1	2								

cage code 22526



REMARK:

1. CHARACTERISTICS:  
RATED VOLTAGE: 250V  
RATED CURRENT: 5AMP  
CONTACT RESISTANCE: 25mohms MAX.INITIAL ;40mohms MAX.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,  
100µ" Min MATTE TIN TOP OVER SOLDER AREA,  
30µ" Min NICKEL UNDER PLATE.

SHELL: STEEL,100µ" Min NICKEL TOP OVER,  
50µ" Min COPPER UNDER PLATE.

BOARD LOCK:COPPER ALLOY,100µ" Min MATTE TIN PLATED.  
SCREW LOCK: COPPER ALLOY, 100µ" Min BRIGHT NICKEL PLATED.

3. PART NUMBER DESCRIPTION:

10090099-S XX X X LF  
SERIES NO. LF: ROHS COMPLIANT  
TYPE S: SOCKET (FEMALE) FLANGE MOUNTING OPTION  
NUMBER OF CONTACTS V: UNC #4-40 SCREWLOCKS  
CONTACT FINISH  
09: 9-PIN 4: FLASH GOLD  
15: 15-PIN 6: 30µ" PLATING OPTION AVAILABLE  
25: 25-PIN  
37: 37-PIN  
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	title
ltr	ecn no	dr	date	linear	angles		
C				.X ± 0.38		projection	FCI
				.XX ± 0.25			www.fciconnect.com
				.XXX ± 0.10			
				0° ±2°			
		dr	JASON HSU 3/12/09		MM	product family	D-SUB
		engr	JASON HSU 3/12/09			size	TWN
		chr	ALIAS BABU 9/11/12		scale	dwg no	sheet
		appd	MITHUN PAUL 9/11/12		1:1	A4	2 of 2
sheet index	revision sheet					10090099	