

REFERENCE SPECIFICATIONS

- NFC 93425 (in compliance with HE 507)

PHYSICAL CHARACTERISTICS

- INSULATOR MATERIAL: THERMOPLASTIC UL94V0
- CONTACT MATERIAL: BRASS
- ACCESSORIES: BRASS
- SHELLS: STEEL

ELECTRICAL CHARACTERISTICS

- NOMINAL CURRENT: 30A or 40A
- CONTACT RESISTANCE: 7.3 m ohms
- CONTACT/CONTACT : 1000 V
- CONTACT/GROUND : 1200 V
- INSULATION RESISTANCE: 5000 MOhms

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/21
- TEMPERATURE RANGE -55°C TO +125°C
- DAMP HEAT STEADY STATE 21 DAYS
- SALT SPRAY 24 HOURS

MECHANICAL CHARACTERISTICS

- RETENTION AGAINST TORQUE: - Threaded insert: 0.7 N.m minimum
- Female screw : 0.5 N.m minimum

NOTE RoHS INFORMATION

- The "LF" products meet european union Directives and other country regulations as described in GS-22-008.
- The housing will withstand exposure to 260°C peak temperature for 3.5 seconds in a wave solder application with a 1.6mm minimum thick circuit board. See application notes/procedures if they are available.
- Termination plating spec:
 - Ni 1.27µm+Sn 2.5 to 7.5(pure bright)
- Active area plating spec:
 - Ni + Gold
- Shell plating :2 to 4µm Cu + 3 to 10µmm Sn(pure bright)
- Accessories: Sn pure bright
- Packaging spec: See GS-14-920

Series **DBL5W5P300G30LF**

Shell size: **E A B C** see sheet 2
 Front accessory definition see sheet 2
 See note RoHS

L :threaded insert M3
O :threaded insert UNC 4-40
V :female screw UNC 4-40
I :female screw M3
 Layout of contacts (see sheet 3)

Contacts**P** :Pin**Termination type****3** Straight version**Plating**

00 200 matings/unmatings
43 500 matings/unmatings

PCB accessories definition
 see sheet 2

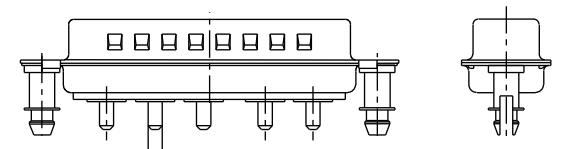
H :harpoons for PCB 2.40mm
G :harpoons for PCB 1.60mm

Power contacts

00 :Not fitted with power contact (signal contacts always fitted)
30 :Fitted with power contacts 30 Amp.
40 :Fitted with power contacts 40 Amp.

TABLE I:PCB HOLE DIAMETERS

POWER CONTACTS			ACCESSORIES
30 A	2.00	Ø2.40	Ø3.10
40 A	2.80	3.10	
Max current power	ØA +0.1 -0.1	PCB HOLE +/-0.1	PCB HOLE +/-0.1



5W5 FOR EXAMPLE

ref	ecn no	dr	date	Dr	M PESSON	2005-10-11	surface	tolerance std	projection	mm
A	LS05-0113	MPE	2005-10-11	Eng	P LEGARE	2005-10-11	ISO 1302	ISO 406	ISO 1101	
B	LS06-0208	LGO	2006-12-13	Chr			0°	±2°	0.0XX	±0.1
C	LS07-0165	MPE	2007/06/14	Appr					±0.05	ECN F09-0092
D	LS07-0278	MPE	2007/11/05							Spec ref
E	LS09-0027	MPE	2009/01/21							
F	F09-0063	LSA	2009-07-15							
G	F09-0092	LSA	2009-09-16							

FCI

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Product family: SUB MALE DW

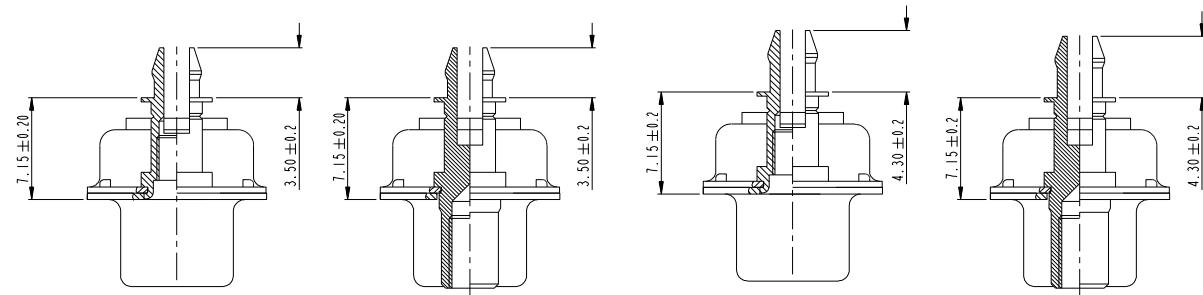
Rev. G

Customer sheet 1 of 4

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1 2 3 4 5 6 7 8

A



A

B

FRONT ACCESSORY	L insert M3 O insert UNC 4.40	V Female screw UNC 4.40 I Female screw M3	L insert M3 O insert UNC 4.40	V Female screw UNC 4.40 I Female screw M3
PCB ACCESSORIES	G Harpoon for PCB 1.60mm	G Harpoon for PCB 1.60mm	H Harpoon for PCB 2.40mm	H Harpoon for PCB 2.40mm

B

C

PART NUMBER	AMPS	MATINGS/UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxP300G30LF	30	200	insert M3	harpoon PCB 1.60mm
D*OxWxP300G30LF	30	200	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxP300G30LF	30	200	female screw UNC 4.40	harpoon PCB 1.60mm
D*IxWxP300G30LF	30	200	female screw M3	harpoon PCB 1.60mm
D*LxWxP300H30LF	30	200	insert M3	harpoon PCB 2.40mm
D*OxWxP300H30LF	30	200	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxP300H30LF	30	200	female screw UNC 4.40	harpoon PCB 2.40mm
D*IxWxP300H30LF	30	200	female screw M3	harpoon PCB 2.40mm
D*LxWxP300G40LF	40	200	insert M3	harpoon PCB 1.60mm
D*OxWxP300G40LF	40	200	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxP300G40LF	40	200	female screw UNC 4.40	harpoon PCB 1.60mm
D*IxWxP300G40LF	40	200	female screw M3	harpoon PCB 1.60mm
D*LxWxP300H40LF	40	200	insert M3	harpoon PCB 2.40mm
D*OxWxP300H40LF	40	200	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxP300H40LF	40	200	female screw UNC 4.40	harpoon PCB 2.40mm
D*IxWxP300H40LF	40	200	female screw M3	harpoon PCB 2.40mm

shell size LAYOUTS

* xWx
E 2V2
A 3V3
A 3W3
B 5W5
C 8W8

PART NUMBER	AMPS	MATINGS/UNMATINGS	FRONT ACCESSORY	PCB ACCESSORIES
D*LxWxP343G30LF	30	500	insert M3	harpoon PCB 1.60mm
D*OxWxP343G30LF	30	500	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxP343G30LF	30	500	female screw UNC 4.40	harpoon PCB 1.60mm
D*IxWxP343G30LF	30	500	female screw M3	harpoon PCB 1.60mm
D*LxWxP343H30LF	30	500	insert M3	harpoon PCB 2.40mm
D*OxWxP343H30LF	30	500	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxP343H30LF	30	500	female screw UNC 4.40	harpoon PCB 2.40mm
D*IxWxP343H30LF	30	500	female screw M3	harpoon PCB 2.40mm
D*LxWxP343G40LF	40	500	insert M3	harpoon PCB 1.60mm
D*OxWxP343G40LF	40	500	insert UNC 4.40	harpoon PCB 1.60mm
D*VxWxP343G40LF	40	500	female screw UNC 4.40	harpoon PCB 1.60mm
D*IxWxP343G40LF	40	500	female screw M3	harpoon PCB 1.60mm
D*LxWxP343H40LF	40	500	insert M3	harpoon PCB 2.40mm
D*OxWxP343H40LF	40	500	insert UNC 4.40	harpoon PCB 2.40mm
D*VxWxP343H40LF	40	500	female screw UNC 4.40	harpoon PCB 2.40mm
D*IxWxP343H40LF	40	500	female screw M3	harpoon PCB 2.40mm

C

D

E

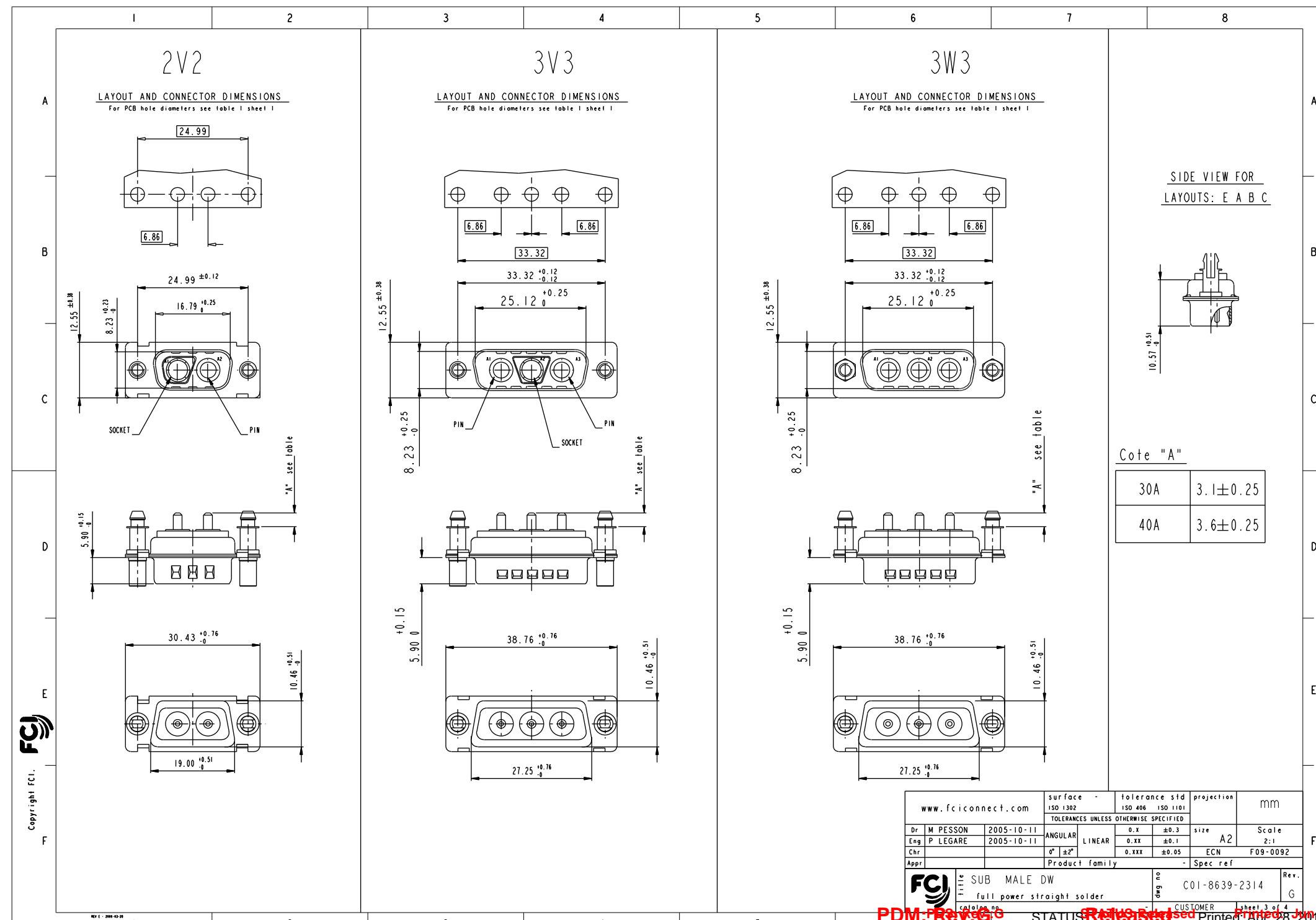
www.fciconnect.com			surface - ISO 1302	tolerance std ISO 406 ISO 1101	projection	mm
TOLERANCES UNLESS OTHERWISE SPECIFIED						
Dr	M PESSON	2005-10-11	ANGULAR	0.X	±0.3	size A2
Eng	P LEGARE	2005-10-11	LINEAR	0.XX	±0.1	
Chr			0° ±2°	0.XXX	±0.05	
Appr			Product family - Spec ref			
FCI			title SUB MALE DW	deg no	C01-8639-2314 Rev. G	
full power straight solder			deg no	STATUS RELEASED		
calibration			deg no	CUSTOMER sheet 2 of 4		
6			deg no	Printed: Apr 28, 2015		

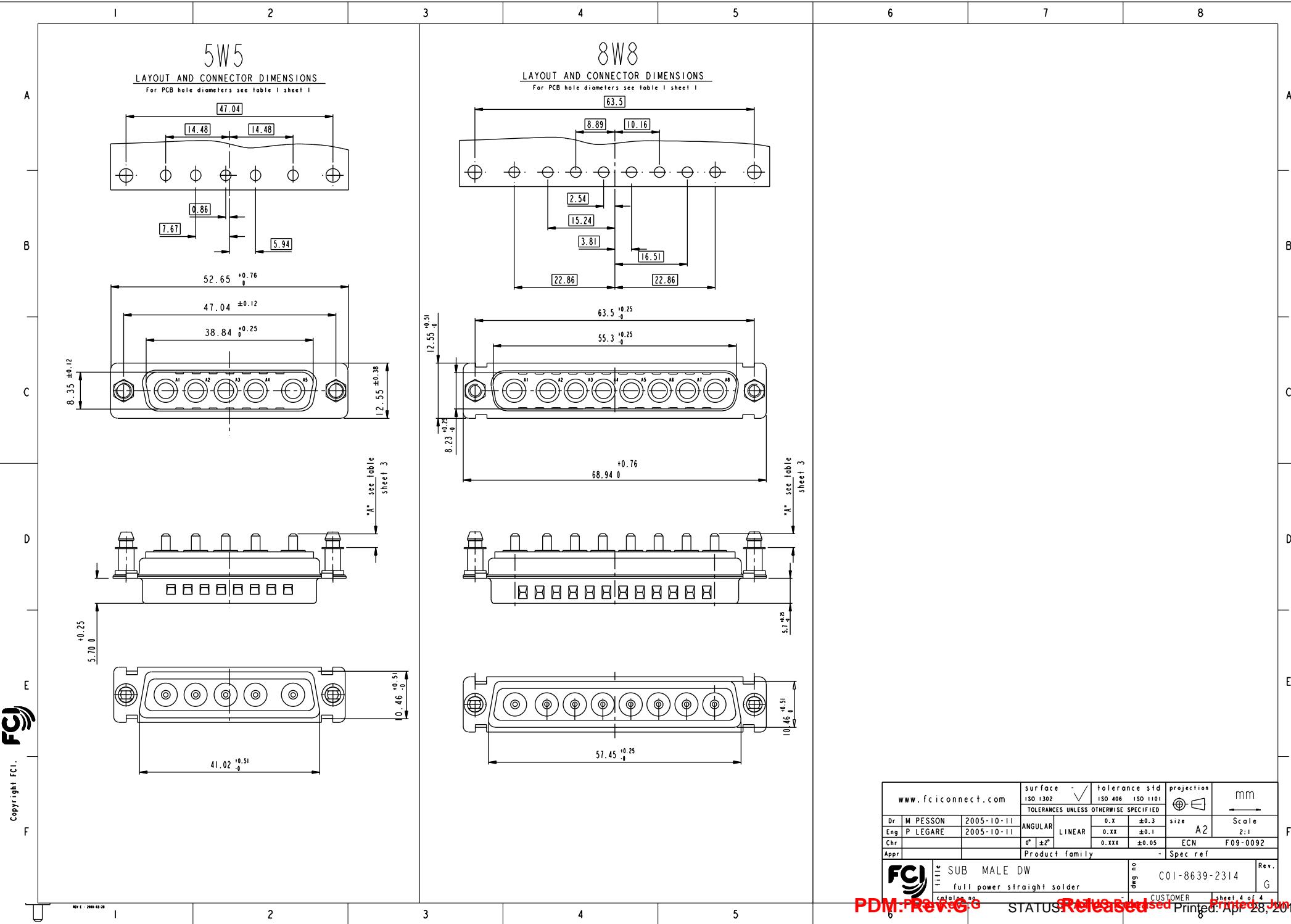
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PDM: Rev. G STATUS: RELEASED Printed: Apr 28, 2015

F





www.fciconnect.com			surface	tolerance std	projection	mm
Dr	M PESSON	2005-10-11	ISO 1302	✓ ISO 406 ISO 1101		
Eng	P LEGARE	2005-10-11	TOLERANCES UNLESS OTHERWISE SPECIFIED		size	Scale
Chr			ANGULAR	0. X	±0.3	
			LINEAR	0. XX	±0.1	
				0. XXX	±0.05	ECN F09-0092
Appr			Product family		Spec ref	

SUB MALE DW

full power straight solder

col. no. 6

date 06

PDM: Rev G

STATUS: Released

Printed: Apr 28, 2015

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FCI:

[DB5W5P343G30LF](#) [DE2V2P300G30LF](#) [DE2V2P343G30LF](#)