

1

2

3

4

5

6

7

8

A

B

C

D

E

F

REFERENCE SPECIFICATIONS

-NFC 93425 (in compliance with HE 501)

PHYSICAL CHARACTERISTICS

-INSULATOR MATERIAL: THERMOPLASTIC UL94 V-0

-CONTACT MATERIAL: PHOSPHOR BRONZE
GOLD OVER NICKEL

-ACCESSORIES: BRASS,cadmium plated yellow passivation

-SHELLS: STEEL,cadmium plated yellow passivation

ELECTRICAL CHARACTERISTICS

-NOMINAL CURRENT: 7.5A

-CONTACT RESISTANCE: <= 7.3 m ohms

-CONTACT/CONTACT : >=1000 V

-CONTACT/GROUND : >=1200 V

-INSULATION RESISTANCE: >=5000 MOhms

ENVIRONMENTAL CHARACTERISTICS

- CLIMATIC CATEGORY: 55/125/56

TEMPERATURE RANGE -55°C TO +125°C

DAMP HEAT STEADY STATE 56 DAYS

SALT SPRAY 48 HOURS

MECHANICAL CHARACTERISTICS

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

- Female screw : 0.5 N.m minimum

Series

DBML25S043

Shell size: E A B C D
see sheet 2

Front accessory definition
see sheet 2

Blank :without accessory

F :floating mounting

L :threaded insert M3

O :threaded insert UNC 4-40

V :female screw UNC 4-40

I :female screw M3

Contact number (see sheet 2)

9,15,25,37,50

Contacts

S :Socket

Plating

Blank :solder bucket 500 matings/unmatings

043 :solder bucket 500 matings/unmatings
for harsh environment

25 WAY for Example

rev	ecn no	dr	date	Dr	M PESSON	2006/11/14	surface	-	tolerance std	projection	mm
A	LS06-0174	MPE	2006/11/14	Eng	P LEGARE	2006/11/14	ISO 1302	✓	ISO 406	ISO 1101	
B	LS07-0217	MLE	2007/08/22	Chr	P LEGARE	2006/11/14	TOLERANCES UNLESS OTHERWISE SPECIFIED				
C	LS07-0273	MPE	2007/10/30	Appr	P LEGARE	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size
D	F10-0072	LSA	2010/07/20				0°	±2°	0.XX	±0.1	A2
-	-	-	-						0.XXX	±0.05	ECN
-	-	-	-								LS07-0273
-	-	-	-								Spec ref
-	-	-	-								

FCI

title

with solder bucket

catalog no

SUB FEMALE DM HE501 series

C01-8637-1733

Rev.
D

www.fciconnect.com

surface

tolerance std

projection

mm

Dr

Eng

Chr

Appr

Dr

Eng

Chr

Appr

Dr

Eng

Chr

Appr

ISO 1302

ANGULAR

0°

LINEAR

0°

±2°

0.X

0.XX

0.XXX

±0.3

±0.1

±0.05

size

A2

ECN

Spec ref

ISO 406

ISO 1101

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGULAR

LINEAR

0°

±2°

0.X

0.XX

0.XXX

±0.3

±0.1

±0.05

size

A2

ECN

Spec ref

www.fciconnect.com

surface

tolerance std

projection

mm

Dr

Eng

Chr

Appr

Dr

Eng

Chr

Appr

Dr

Eng

Chr

Appr

ISO 1302

ANGULAR

0°

LINEAR

0°

±2°

0.X

0.XX

0.XXX

±0.3

±0.1

±0.05

size

A2

ECN

Spec ref

ISO 406

ISO 1101

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGULAR

LINEAR

0°

±2°

0.X

0.XX

0.XXX

±0.3

±0.1

±0.05

size

A2

ECN

Spec ref

www.fciconnect.com

surface

tolerance std

projection

mm

Dr

Eng

Chr

Appr

Dr

Eng

Chr

Appr

Dr

Eng

Chr

Appr

ISO 1302

ANGULAR

0°

LINEAR

0°

±2°

0.X

0.XX

0.XXX

±0.3

±0.1

±0.05

size

A2

ECN

Spec ref

ISO 406

ISO 1101

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGULAR

LINEAR

0°

±2°

0.X

0.XX

0.XXX

±0.3

±0.1

±0.05

size

A2

ECN

Spec ref

FCI

title

with solder bucket

catalog no

SUB FEMALE DM HE501 series

C01-8637-1733

Rev.
D

www.fciconnect.com

surface

tolerance std

projection

mm

Dr

Eng

Chr

Appr

Dr

Eng

Chr

Appr

Dr

Eng

Chr

Appr

ISO 1302

ANGULAR

0°

LINEAR

0°

±2°

0.X

0.XX

0.XXX

±0.3

±0.1

±0.05

size

A2

ECN

Spec ref

ISO 406

ISO 1101

TOLERANCES UNLESS OTHERWISE SPECIFIED

ANGULAR

LINEAR

0°

±2°

0.X

0.XX

0.XXX

±0.3

±0.1

±0.05

size

A2

ECN

Spec ref

REV E - 2006-03-28

1

2

3

4

5

6

7

8

Copyright FCI.

FCI

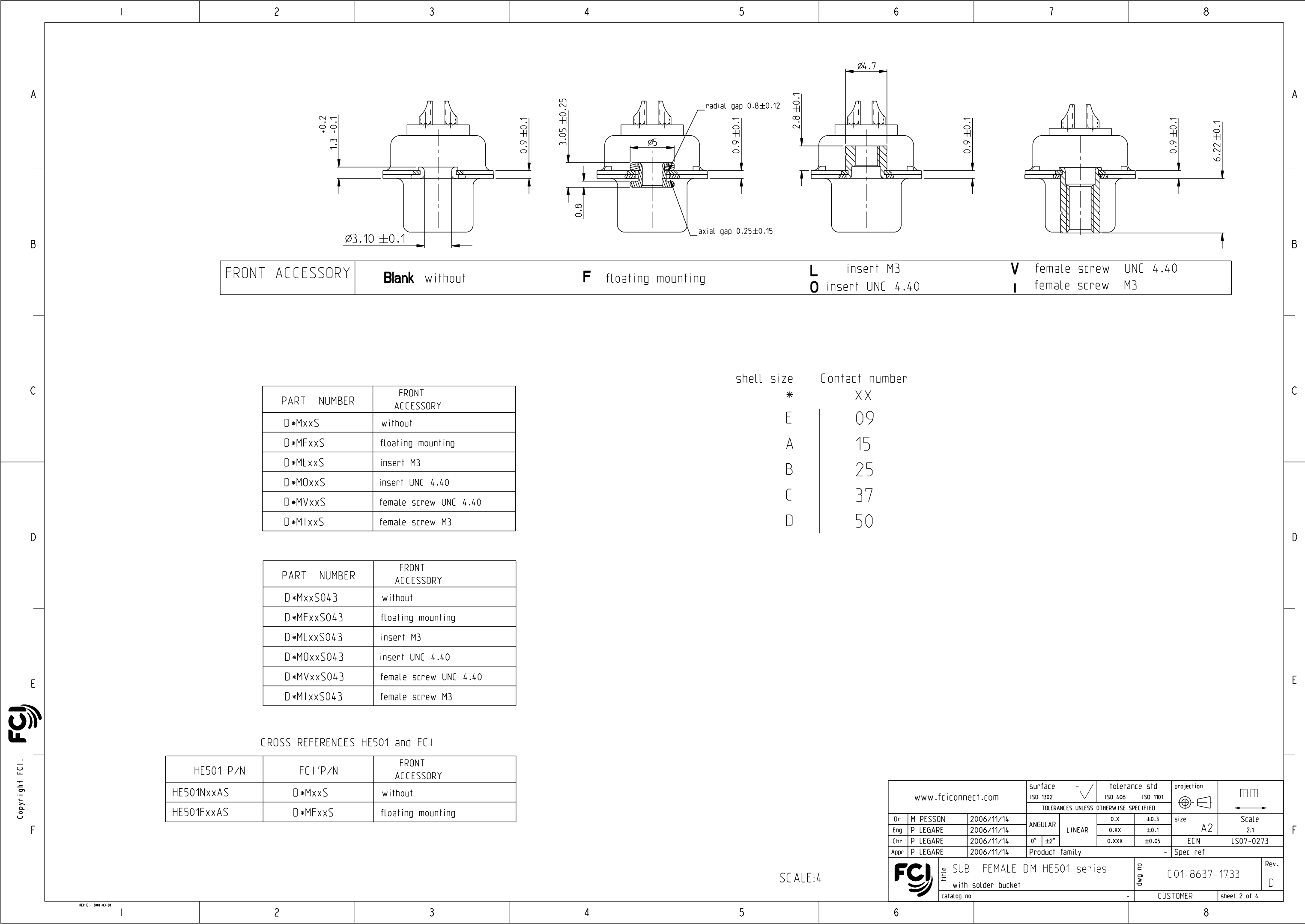
PDS: Rev :D

PDM: Rev :D

STATUS:Released

Printed: Jun 18, 2015

sheet 1 of 4



FRONT ACCESSORY	Blank without	F floating mounting	L insert M3 O insert UNC 4.40	V female screw UNC 4.40 I female screw M3
-----------------	---------------	---------------------	----------------------------------	--

PART NUMBER	FRONT ACCESSORY
D*MxxS	without
D*MFxxS	floating mounting
D*MLxxS	insert M3
D*M0xxS	insert UNC 4.40
D*MVxxS	female screw UNC 4.40
D*MIxxS	female screw M3

shell size	Contact number
*	XX
E	09
A	15
B	25
C	37
D	50

PART NUMBER	FRONT ACCESSORY
D*MxxS043	without
D*MFxxS043	floating mounting
D*MLxxS043	insert M3
D*M0xxS043	insert UNC 4.40
D*MVxxS043	female screw UNC 4.40
D*MIxxS043	female screw M3

CROSS REFERENCES HE501 and FC I

HE501 P/N	FC I P/N	FRONT ACCESSORY
HE501NxxAS	D*MxxS	without
HE501FxxAS	D*MFxxS	floating mounting

SCALE:4

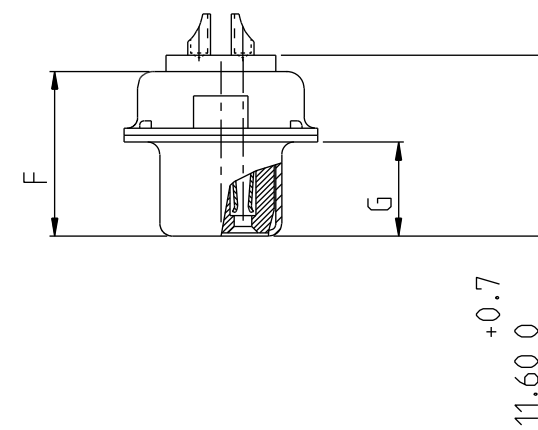
www.fciconnect.com			surface ISO 1302		- ✓ tolerance std ISO 406 ISO 1101		projection 				
TOLERANCES UNLESS OTHERWISE SPECIFIED											
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X		±0.3	size A2	Scale 2:1		
Eng	P LEGARE	2006/11/14			0.XX		±0.1				
Chr	P LEGARE	2006/11/14			0.XXX		±0.05				
Appr	P LEGARE	2006/11/14	0°		±2°	ECN			LS07-0273		
Product family					-		Spec ref				
			title SUB FEMALE DM HE501 series with solder bucket				dwg no C01-8637-1733		Rev. D		
catalog no					-		CUSTOMER		sheet 2 of 4		



DIMENSIONS FOR SHELL E,A,B,C

Dimensions are in millimeters

Shell size	Number of contacts	A $^{+0.76}_{-0}$	B $^{+0.25}_{-0}$	C ± 0.12	F $^{+0.57}_{-0}$	G $^{+0.25}_{-0}$	H $^{+0.51}_{-0}$
E	09	30.43	16.21	24.99	10.64	6.05	19.02
A	15	38.76	24.54	33.32	10.64	6.05	27.25
B	25	52.65	38.25	47.04	10.64	6.05	41.02
C	37	68.94	54.71	63.50	10.64	6.05	57.45



scale 3

www.fciconnect.com			surface ISO 1302		- ✓ tolerance std ISO 406 ISO 1101		projection 		mm 	
			TOLERANCES UNLESS OTHERWISE SPECIFIED							
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X	±0.3	size	A2		
Chr	P LEGARE	2006/11/14			0.XX	±0.1				
Eng	P LEGARE	2006/11/14			0.XXX	±0.05	ECN LS07-0273			
Appr	P LEGARE	2006/11/14	Product family				-	Spec ref		
		title SUB FEMALE DM HE501 series with solder bucket				dwg no C 01-8637-1733			Rev. D	
		catalog no -		CUSTOMER						

DIMENSIONS FOR SHELL SIZE D (50 CONTACTS)

Technical drawing of a female connector shell (DM HE501 series) showing three views: top, side, and front. Dimensions are in mm.

- Top View:** Overall width 66.55 (+0.76, -0), internal width 55.07 (+0.51, -0), height 13.31 (+0.51, -0). Pin pitch 2.76, pin diameter 2.84. Contact positions 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50.
- Side View:** Overall height 7.94 max, shell height 2.72 (±0.25), base height 6.05 (+0.25, -0).
- Front View:** Overall width 61.11 (±0.12), internal width 52.30 (+0.25, -0), height 15.37 (±0.38), shell height 10.62 (+0.26, -0).

Technical drawing of a female connector shell (DM HE501 series) showing a side view. Dimensions are in mm.

- Overall height 11.6 (+0.7, -0), shell height 10.64 (+0.52, -0), base height 0.90 (±0.1).

scale 3

www.fciconnect.com			Surface ISO 1302		tolerance std ISO 406 ISO 1101		projection A2	mm	
			TOLERANCES UNLESS OTHERWISE SPECIFIED				size	Scale	
Dr	M PESSON	2006/11/14	ANGULAR 0° ±2°	LINEAR	0.x	±0.3	A2	2:1	
Eng	P LEGARE	2006/11/14			0.xx	±0.1			
Chr	P LEGARE	2006/11/14			0.xxx	±0.05			
Appr	P LEGARE	2006/11/14	Product family		-		ECN	LS07-0273	
			Spec ref		-				
FCI			title			DWG NO		Rev.	
			SUB FEMALE DM HE501 series			C01-8637-1733		D	
			with solder bucket			CUSTOMER		sheet 4 of 4	
			catalog no			-			

www.fciconnect.com			surface ISO 1302		- ✓		tolerance std ISO 406 ISO 1101		projection 			
			TOLERANCES UNLESS		OTHERWISE SPECIFIED							
Dr	M PESSON	2006/11/14	ANGULAR	LINEAR	0.X		±0.3		size		Scale	
Eng	P LEGARE	2006/11/14			0.XX		±0.1		A2		2:1	
Chr	P LEGARE	2006/11/14	0°	±2°	0.XXX		±0.05		ECN		LS07-0273	
Appr	P LEGARE	2006/11/14	Product family				-		Spec ref			
		title	SUB FEMALE DM HE501 series				dwg no	C01-8637-1733			Rev. D	
			with solder bucket									
		catalog no	-				CUSTOMER			sheet 4 of 4		

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru

www.lifeelectronics.ru