

| PRODUCT NUMBER   | DESCRIPTION      | NOTES      |
|------------------|------------------|------------|
| 10117947-XXXXLF  | NON-HF           | SEE SHT. 3 |
| 10117947-XXXXHLF | HALOGEN FREE (H) | SEE SHT. 3 |



CABLE TIE  
COLOR: BLACK  
SEE NOTE 14



SECTION C-C  
Mini SAS  
CABLE ORIENTATION ONLY  
END P2 & END P3

|             |                |                        |                                  |              |           |               |       |          |   |
|-------------|----------------|------------------------|----------------------------------|--------------|-----------|---------------|-------|----------|---|
| dr          | Deborah Ingram | 2011/05/23             | projection                       | mm           | size      | A3            | scale | 1:1      |   |
| eng         | Tommy Lin      | 2014/01/06             |                                  |              | ecn no    | ELX-N-16648-1 |       |          |   |
| chr         | -              | -                      |                                  |              | rel level | Released      |       |          |   |
| appr        | Roger Cheng    | 2014/01/07             | product family                   | MiniSAS/SATA | rev       | D             |       |          |   |
|             |                | title                  | MINI SAS HD 8X TO 2 MINI SAS 2.1 |              | dwg no    | 10117947      |       | cat. no. | - |
| www.fci.com |                | Product - Customer Drw |                                  | sheet 1 of 5 |           |               |       |          |   |

| PRODUCT NUMBER   | DESCRIPTION      | NOTES      |
|------------------|------------------|------------|
| 10117947-XXXXLF  | NON-HF           | SEE SHT. 3 |
| 10117947-XXXXHLF | HALOGEN FREE (H) | SEE SHT. 3 |



END P1  
MINI SAS HD 8X  
ISOMETRIC VIEW



END P2 & END P3  
MINI SAS  
ISOMETRIC VIEW



KEY 3 & KEY SLOT 2, 4 & 6  
○◇ UNIVERSAL PORT

END P2 & END P3  
MINI SAS

|             |                |            |                |                                  |           |                        |       |              |
|-------------|----------------|------------|----------------|----------------------------------|-----------|------------------------|-------|--------------|
| dr          | Deborah Ingram | 2011/05/23 | projection<br> | mm<br>                           | size      | A3                     | scale | 4:5          |
| eng         | Tommy Lin      | 2014/01/06 |                |                                  | ecn no    | ELX-N-16648-1          |       |              |
| chr         | -              | -          |                |                                  | rel level | Released               |       |              |
| appr        | Roger Cheng    | 2014/01/07 | product family | C&A                              |           |                        |       |              |
|             |                | title      |                | MINI SAS HD 8X TO 2 MINI SAS 2.1 |           | dwg no                 |       | 10117947     |
| www.fci.com |                | cat. no.   |                | -                                |           | Product - Customer Drw |       | sheet 2 of 5 |
|             |                |            |                | rev                              |           |                        |       | D            |



| PRODUCT NUMBER   | DESCRIPTION      | NOTES      |
|------------------|------------------|------------|
| 10117947-XXXXLF  | NON-HF           | SEE SHT. 3 |
| 10117947-XXXXHLF | HALOGEN FREE (H) | SEE SHT. 3 |

| PRODUCT NUMBER<br>(NON-HALOGEN FREE)<br>SEE NOTE 16 | AWG    | "DIM L"<br>LENGTH<br>(Meters) | "DIM M"<br>HEIGHT<br>(mm) |
|---|--------|-------------------------------|---------------------------|
| 10117947-5020LF                                     | 24 AWG | 2 M                           | (20.1)                    |
| 10117947-5030LF                                     | 24 AWG | 3 M                           | (20.1)                    |
| 10117947-5040LF                                     | 24 AWG | 4 M                           | (20.1)                    |
| 10117947-5050LF                                     | 24 AWG | 5 M                           | (20.1)                    |
| 10117947-5060LF                                     | 24 AWG | 6 M                           | (20.1)                    |
| 10117947-5070LF                                     | 24 AWG | 7 M                           | (20.1)                    |
| 10117947-5080LF                                     | 24 AWG | 8 M                           | (20.1)                    |
| 10117947-5090LF                                     | 24 AWG | 9 M                           | (20.1)                    |
| 10117947-5100LF                                     | 24 AWG | 10 M                          | (20.1)                    |
| 10117947-4020LF                                     | 26 AWG | 2 M                           | (20.1)                    |
| 10117947-4030LF                                     | 26 AWG | 3 M                           | (20.1)                    |
| 10117947-4040LF                                     | 26 AWG | 4 M                           | (20.1)                    |
| 10117947-4050LF                                     | 26 AWG | 5 M                           | (20.1)                    |
| 10117947-4060LF                                     | 26 AWG | 6 M                           | (20.1)                    |
| 10117947-4070LF                                     | 26 AWG | 7 M                           | (20.1)                    |
| 10117947-4080LF                                     | 26 AWG | 8 M                           | (20.1)                    |
| 10117947-3010LF                                     | 28 AWG | 1 M                           | (17.3)                    |
| 10117947-3020LF                                     | 28 AWG | 2 M                           | (17.3)                    |
| 10117947-3030LF                                     | 28 AWG | 3 M                           | (17.3)                    |
| 10117947-3040LF                                     | 28 AWG | 4 M                           | (17.3)                    |
| 10117947-3050LF                                     | 28 AWG | 5 M                           | (17.3)                    |
| 10117947-3060LF                                     | 28 AWG | 6 M                           | (17.3)                    |
| 10117947-2005LF                                     | 30 AWG | 0.5 M                         | (17.3)                    |
| 10117947-2010LF                                     | 30 AWG | 1 M                           | (17.3)                    |
| 10117947-2020LF                                     | 30 AWG | 2 M                           | (17.3)                    |
| 10117947-2030LF                                     | 30 AWG | 3 M                           | (17.3)                    |
| 10117947-2040LF                                     | 30 AWG | 4 M                           | (17.3)                    |

| PRODUCT NUMBER<br>(HALOGEN FREE)<br>SEE NOTE 9 AND 16 | AWG    | "DIM L"<br>LENGTH<br>(Meters) | "DIM M"<br>HEIGHT<br>(mm) |
|---|--------|-------------------------------|---------------------------|
| 10117947-5020HLF                                      | 24 AWG | 2 M                           | (20.1)                    |
| 10117947-5030HLF                                      | 24 AWG | 3 M                           | (20.1)                    |
| 10117947-5040HLF                                      | 24 AWG | 4 M                           | (20.1)                    |
| 10117947-5050HLF                                      | 24 AWG | 5 M                           | (20.1)                    |
| 10117947-5060HLF                                      | 24 AWG | 6 M                           | (20.1)                    |
| 10117947-5070HLF                                      | 24 AWG | 7 M                           | (20.1)                    |
| 10117947-5080HLF                                      | 24 AWG | 8 M                           | (20.1)                    |
| 10117947-5090HLF                                      | 24 AWG | 9 M                           | (20.1)                    |
| 10117947-5100HLF                                      | 24 AWG | 10 M                          | (20.1)                    |
| 10117947-4020HLF                                      | 26 AWG | 2 M                           | (20.1)                    |
| 10117947-4030HLF                                      | 26 AWG | 3 M                           | (20.1)                    |
| 10117947-4040HLF                                      | 26 AWG | 4 M                           | (20.1)                    |
| 10117947-4045HLF                                      | 26 AWG | 5 M                           | (20.1)                    |
| 10117947-4060HLF                                      | 26 AWG | 6 M                           | (20.1)                    |
| 10117947-4070HLF                                      | 26 AWG | 7 M                           | (20.1)                    |
| 10117947-4080HLF                                      | 26 AWG | 8 M                           | (20.1)                    |
| 10117947-3010HLF                                      | 28 AWG | 1 M                           | (17.3)                    |
| 10117947-3020HLF                                      | 28 AWG | 2 M                           | (17.3)                    |
| 10117947-3030HLF                                      | 28 AWG | 3 M                           | (17.3)                    |
| 10117947-3040HLF                                      | 28 AWG | 4 M                           | (17.3)                    |
| 10117947-3050HLF                                      | 28 AWG | 5 M                           | (17.3)                    |
| 10117947-3060HLF                                      | 28 AWG | 6 M                           | (17.3)                    |
| 10117947-2005HLF                                      | 30 AWG | 0.5 M                         | (17.3)                    |
| 10117947-2010HLF                                      | 30 AWG | 1 M                           | (17.3)                    |
| 10117947-2020HLF                                      | 30 AWG | 2 M                           | (17.3)                    |
| 10117947-2030HLF                                      | 30 AWG | 3 M                           | (17.3)                    |
| 10117947-2040HLF                                      | 30 AWG | 4 M                           | (17.3)                    |

|             |                |  |   |                        |                |               |       |     |
|-------------|----------------|--|---|------------------------|----------------|---------------|-------|-----|
| dr          | Deborah Ingram | 2011/05/23   |   |                        | size           | A3            | scale | 1:1 |
| eng         | Tommy Lin      | 2014/01/06   |   |                        | ecn no         | ELX-N-16648-1 |       |     |
| chr         | -              | -  |   |                        | rel level      | Released      |       |     |
| appr        | Roger Cheng    | 2014/01/07   |   |                        | product family | C&A           |       |     |
|             |                | title MINI SAS HD 8X TO 2 MINI SAS 2.1<br>TRAINED UNIVERSAL FINAL ASSEMBLY (6Gb/s) |   | dwg no 10117947        | rev D          |               |       |     |
| www.fci.com |                | cat. no.   | - | Product - Customer Drw |                | sheet 3 of 5  |       |     |



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| PRODUCT NUMBER   | DESCRIPTION      | NOTES      |
|------------------|------------------|------------|
| 10117947-XXXXLF  | NON-HF           | SEE SHT. 3 |
| 10117947-XXXXHLF | HALOGEN FREE (H) | SEE SHT. 3 |



VIEW A  
SCALE: 2:1



VIEW B  
SCALE: 2:1

LEGEND:



HIGH-SPEED SERIAL DIFFERENTIAL PAIRS



SIGNAL RETURN



POWER AND MANAGEMENT INTERFACE

WIRING LIST (SEE NOTE 7)

| END P1 (B)<br>MINI SAS HD |      | CONDUCTOR #        | END P2<br>(MINI SAS) |        |
|---------------------------|------|--------------------|----------------------|--------|
| SIGNAL                    | PIN# |                    | PIN#                 | SIGNAL |
| GND                       | A9   | PAIR 2             | B7                   | GND    |
| Rx 1-                     | A5   |                    | B6                   | Tx 1-  |
| Rx 1+                     | A4   |                    | B5                   | Tx 1+  |
| GND                       | A3   | PAIR 4             | B4                   | GND    |
| Rx 3-                     | A8   |                    | B12                  | Tx 3-  |
| Rx 3+                     | A7   |                    | B11                  | Tx 3+  |
| GND                       | A6   |                    | B13                  | GND    |
| N/C                       | A1   | NO THRU CONNECTION |                      |        |
| Interrupt                 | A2   |                    |                      |        |
| GND                       | B9   | PAIR 1             |                      | GND    |
| RX 0-                     | B5   |                    | B3                   | TX 0-  |
| RX 0+                     | B4   |                    | B2                   | TX 0+  |
| GND                       | B3   | PAIR 3             | B1                   | GND    |
| RX 2-                     | B8   |                    | B9                   | TX 2-  |
| RX 2+                     | B7   |                    | B8                   | TX 2+  |
| GND                       | B6   |                    | B10                  | GND    |
| N/C                       | B1   | NO THRU CONNECTION |                      |        |
| Mod_PRS_L (GND)           | B2   |                    |                      |        |
| GND                       | C9   |                    | A7                   | GND    |
| TX 1-                     | C5   | PAIR 2             | A6                   | RX 1-  |
| TX 1+                     | C4   |                    | A5                   | RX 1+  |
| GND                       | C3   |                    | A4                   | GND    |
| TX 3-                     | C8   | PAIR 4             | A12                  | RX 3-  |
| TX 3+                     | C7   |                    | A11                  | RX 3+  |
| GND                       | C6   |                    | A13                  | GND    |
| SCL                       | C1   | NO THRU CONNECTION |                      |        |
| SDA                       | C2   |                    |                      |        |
| GND                       | D9   |                    |                      | GND    |
| TX 0-                     | D5   | PAIR 1             | A3                   | RX 0-  |
| TX 0+                     | D4   |                    | A2                   | RX 0+  |
| GND                       | D3   |                    | A1                   | GND    |
| TX 2-                     | D8   | PAIR 3             | A9                   | RX 2-  |
| TX 2+                     | D7   |                    | A8                   | RX 2+  |
| GND                       | D6   |                    | A10                  | GND    |
| N/C                       | D1   | NO THRU CONNECTION |                      |        |
| V+3.3 for EEPROM          | D2   |                    |                      |        |
| SHELL                     |      | BRAID              |                      | SHELL  |

SHIELD-----SHIELD

WIRING LIST (SEE NOTE 7)

| END P1 (A)<br>MINI SAS HD |      | CONDUCTOR #        | END P3<br>(MINI SAS) |        |
|---------------------------|------|--------------------|----------------------|--------|
| SIGNAL                    | PIN# |                    | PIN#                 | SIGNAL |
| GND                       | A9   | PAIR 2             | B7                   | GND    |
| Rx 1-                     | A5   |                    | B6                   | Tx 1-  |
| Rx 1+                     | A4   |                    | B5                   | Tx 1+  |
| GND                       | A3   | PAIR 4             | B4                   | GND    |
| Rx 3-                     | A8   |                    | B12                  | Tx 3-  |
| Rx 3+                     | A7   |                    | B11                  | Tx 3+  |
| GND                       | A6   |                    | B13                  | GND    |
| N/C                       | A1   | NO THRU CONNECTION |                      |        |
| Interrupt                 | A2   |                    |                      |        |
| GND                       | B9   | PAIR 1             |                      | GND    |
| RX 0-                     | B5   |                    | B3                   | TX 0-  |
| RX 0+                     | B4   |                    | B2                   | TX 0+  |
| GND                       | B3   | PAIR 3             | B1                   | GND    |
| RX 2-                     | B8   |                    | B9                   | TX 2-  |
| RX 2+                     | B7   |                    | B8                   | TX 2+  |
| GND                       | B6   |                    | B10                  | GND    |
| N/C                       | B1   | NO THRU CONNECTION |                      |        |
| Mod_PRS_L (GND)           | B2   |                    |                      |        |
| GND                       | C9   |                    | A7                   | GND    |
| TX 1-                     | C5   | PAIR 2             | A6                   | RX 1-  |
| TX 1+                     | C4   |                    | A5                   | RX 1+  |
| GND                       | C3   |                    | A4                   | GND    |
| TX 3-                     | C8   | PAIR 4             | A12                  | RX 3-  |
| TX 3+                     | C7   |                    | A11                  | RX 3+  |
| GND                       | C6   |                    | A13                  | GND    |
| SCL                       | C1   | NO THRU CONNECTION |                      |        |
| SDA                       | C2   |                    |                      |        |
| GND                       | D9   |                    |                      | GND    |
| TX 0-                     | D5   | PAIR 1             | A3                   | RX 0-  |
| TX 0+                     | D4   |                    | A2                   | RX 0+  |
| GND                       | D3   |                    | A1                   | GND    |
| TX 2-                     | D8   | PAIR 3             | A9                   | RX 2-  |
| TX 2+                     | D7   |                    | A8                   | RX 2+  |
| GND                       | D6   |                    | A10                  | GND    |
| N/C                       | D1   | NO THRU CONNECTION |                      |        |
| V+3.3 for EEPROM          | D2   |                    |                      |        |
| SHELL                     |      | BRAID              |                      | SHELL  |

SHIELD-----SHIELD

|             |                |            |                                  |     |        |               |                        |          |
|-------------|----------------|------------|----------------------------------|-----|--------|---------------|------------------------|----------|
| dr          | Deborah Ingram | 2011/05/23 | projection                       | mm  | size   | A3            | scale                  | 1:2      |
| eng         | Tommy Lin      | 2014/01/06 |                                  |     | ecn no | ELX-N-16648-1 | rel level              | Released |
| chr         | -              | -          |                                  |     |        |               |                        |          |
| appr        | Roger Cheng    | 2014/01/07 | product family                   | C&A |        |               |                        |          |
|             |                |            | MINI SAS HD 8X TO 2 MINI SAS 2.1 |     | dwg no |               | 10117947               |          |
| www.fci.com |                |            | cat. no.                         |     | -      |               | Product - Customer Drw |          |
|             |                |            | sheet 4 of 5                     |     |        |               |                        |          |

| PRODUCT NUMBER   | DESCRIPTION      | NOTES      |
|------------------|------------------|------------|
| 10117947-XXXXLF  | NON-HF           | SEE SHT. 3 |
| 10117947-XXXXHLF | HALOGEN FREE (H) | SEE SHT. 3 |

NOTES:

1. MATERIALS MINI SAS HD (END P1)  
 BACK SHELLS: ZINC DIE CAST/ COPPER UNDER PLATE/NICKEL OVER PLATE  
 PULL TAB: THERMOPLASTIC POLYMER  
 LATCH: STAINLESS STEEL  
 FERRULE: BRASS  
 EMI GASKETS: STAINLESS STEEL  
 LOCTITE  
 HEAT SHRINK: HIGH POLYMER  
 PADDLE CARD: PRINTED CIRCUIT SUBSTRATE

MATERIALS MINI SAS (END P2 & END P3)  
 BACK SHELLS: ZINC DIE CAST  
 PULL TAB: THERMOPLASTIC POLYMER  
 LATCH: STAINLESS STEEL  
 JET MELT: POLYAMIDE POLYMER  
 HEAT SHRINK: POLYOLEFIN  
 PADDLE CARD: PRINTED CIRCUIT SUBSTRATE

2. ELECTRICAL PERFORMANCE PER CURRENT REVISION: T10/SAS-2.1

3. THIS PRODUCT MEETS THE RESTRICTION OF HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (RoHS) DIRECTIVE (2011/65/EU)

4. PRODUCT SPECIFICATIONS: Mini SAS HD GS-12-651, MINI SAS 2.1 GS-12-548

5. UNLESS OTHERWISE SPECIFIED ASSEMBLED LENGTH TOLERANCE IS TO BE:  
 "DIM L" < 1 METERS = ±25mm  
 "DIM L" 1 METER TO 10 METER = 2% OF "DIM L"

6. LABEL DETAILS:

FCI CHINA  
 FCI P/N  
 FCI CUSTOMER DRAWING REVISION  
 FCI SERIAL NUMBER

FONT SHALL BE CLEARLY VISIBLE AND BLACK IN COLOR

△ LABEL EXAMPLE

|                  |
|------------------|
| FCI CHINA        |
| 10117947-5020LF  |
| REV.D            |
| CN1323HG205L0001 |

FCI SERIAL NUMBER IS ONLY FOR TRACKING PRODUCT, DEFINED AS BELOW:

CN1323HG205L0001

CN PRESENT MADE IN CHINA  
 YYWW (YEAR AND WEEK)  
 PRESENT PRODUCT BASE NUMBER (USE "HG")

SEQUENCE NUMBER (0001-9999)  
 NON-HALOGEN FREE OR HALOGEN FREE  
 (L IS NON-HALOGEN FREE TYPE OR H IS HALOGEN FREE TYPE)  
 CABLE AWG (2 IS 30AWG, 3 IS 28AWG, 4 IS 26AWG, 5 IS 24AWG)  
 LENGTH (05 IS 0.5 METER; 10 IS 1.0 METER, 20 IS 2.0 METERS, ETC)

7. ALL CABLE ASSEMBLIES SHALL BE 100% TESTED FOR CONTINUITY AS DEFINED IN WIRING LIST.

8. PACKAGING OF LEAD FREE PRODUCTS MEETS LABELING AND PACKAGING PER SPECIFICATION GS-14-920. PACKAGE CABLE ASSEMBLIES PER GS-14-1272. DUST COVER IS TO BE APPLIED TO MINI SAS HD CONNECTOR PRIOR TO SHIPPING. FCI PACKAGE TRACKING BAG LABEL IS ONLY FOR REFERENCE.

9. "H" PRODUCT NUMBERS DESIGNATE THE USE OF HALOGEN FREE RAW CABLE.

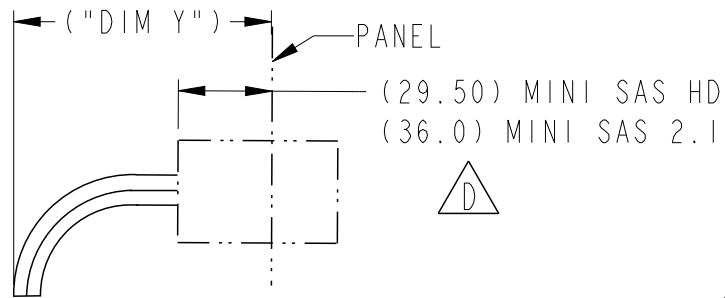
10. THIS DIMENSION IS A FINISHED PRODUCT LENGTH.

11. A "△" SYMBOL WILL BE NEXT TO ANY DIMENSION, VIEW, OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION. THE CURRENT REVISION WILL BE SHOWN IN THE SYMBOL.

12. MEETS ELECTRICAL PERFORMANCE REQUIREMENTS OF SAS 2.1.

13. MATES WITH SERIES: MINI SAS HS - 100112627 or 10112628  
 MINI SAS 2.1 - BOARD CONNECTOR 100988870 AND CAGE 10098872

14. PLACE A CABLE TIE EVERY 0.5 METERS ON ASSEMBLIES. IN THE CASE OF A 0.5 METER CABLE LENGTH, PLACE THE CABLE TIE MIDWAY BETWEEN CONNECTORS.



PEND RADIUS  
 TOP VIEW OF CONNECTOR

MINI SAS HD P1  
 MINIMUM CABLE BEND TABLE

| CABLE  | ("DIM Y")<br>HF | ("DIM Y")<br>NON-HF |
|--------|-----------------|---------------------|
| 24 AWG | 101.1           | 100.6               |
| 26 AWG | 100.0           | 99.7                |
| 28 AWG | 99.1            | 98.7                |
| 30 AWG | 98.5            | 97.9                |

MINI SAS 2.1 P2 & P3  
 MINIMUM CABLE BEND TABLE  
 PER CONNECTOR

| CABLE  | ("DIM Y")<br>HF | ("DIM Y")<br>NON-HF |
|--------|-----------------|---------------------|
| 24 AWG | 90.6            | 88.3                |
| 26 AWG | 85.3            | 82.9                |
| 28 AWG | 79.3            | 76.9                |
| 30 AWG | 75.7            | 72.1                |



NOTES CONTINUED

15. EEPROM INFORMATION OF MSHD SIDE REFER TO FCI LATEST PRODUCT SPEC. GS-12-651

16. CABLE IS OPTIONAL, WHICH HAD BEEN QUALIFIED BY FCI AND MEET FCI PRODUCT SPEC. GS-12-651/548

|                |                |  |                |                            |
|----------------|----------------|--|----------------|----------------------------|
| dr             | Deborah Ingram | 2011/05/23   | projection<br> | size<br>A3<br>scale<br>1:1 |
| eng            | Tommy Lin      | 2014/01/06   |                |                            |
| chr            | -              | -  |                |                            |
| appr           | Roger Cheng    | 2014/01/07   |                |                            |
| product family |                |  | -              | ecn no<br>ELX-N-16648-1    |
| rel level      |                |  | -              | Released                   |
|                |                | MINI SAS HD 8X TO 2 MINI SAS 2.1<br>TRAINED UNIVERSAL FINAL ASSEMBLY (6Gb/s) |                | dwg no<br>10117947         |
| www.fci.com    |                | cat. no.   | -              | Product - Customer Drw     |
|                |                |  | sheet 5 of 5   | rev<br>D                   |

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

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