

## Piezoelectric Horn Driver Circuit

### Features:

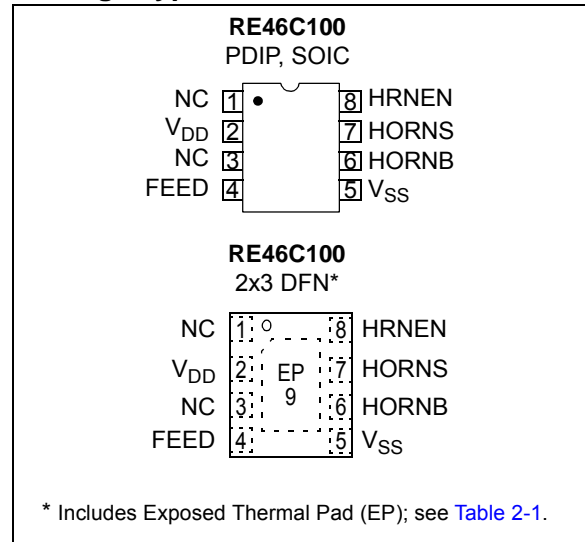
- Low Quiescent Current (< 100 nA)
- Low Driver  $R_{ON}$  – 20 $\Omega$  typical at 9V
- Wide Operating Voltage Range
- Available in 8-pin DFN, PDIP and SOIC packages

### General Description:

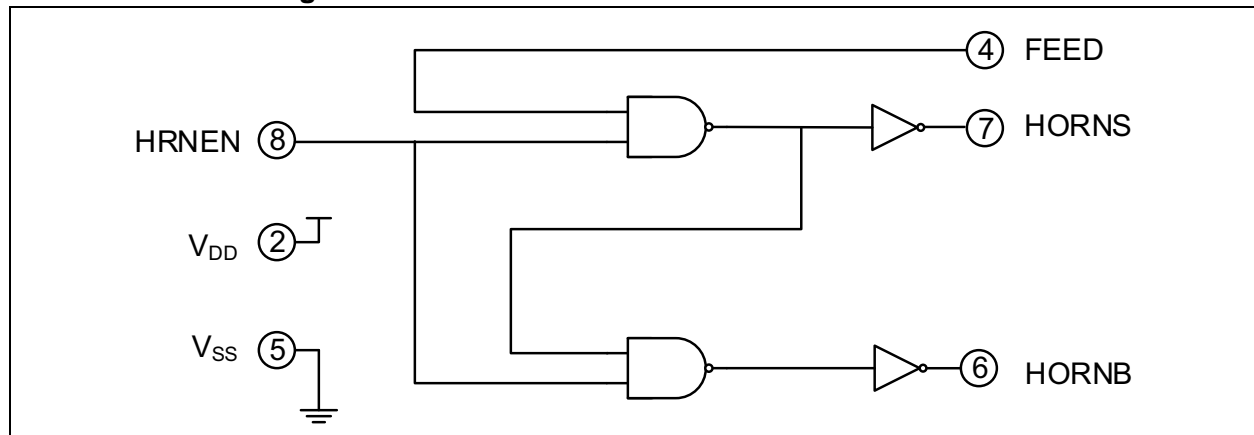
The RE46C100 devices are intended for applications using a self oscillating piezoelectric horn, although it can be used in direct drive applications. Feedback control and a driver circuit are provided, as well as a horn enable function.

The RE46C100 is intended for use in smoke detectors, CO detectors, personal security products and electronic toys.

### Package Types

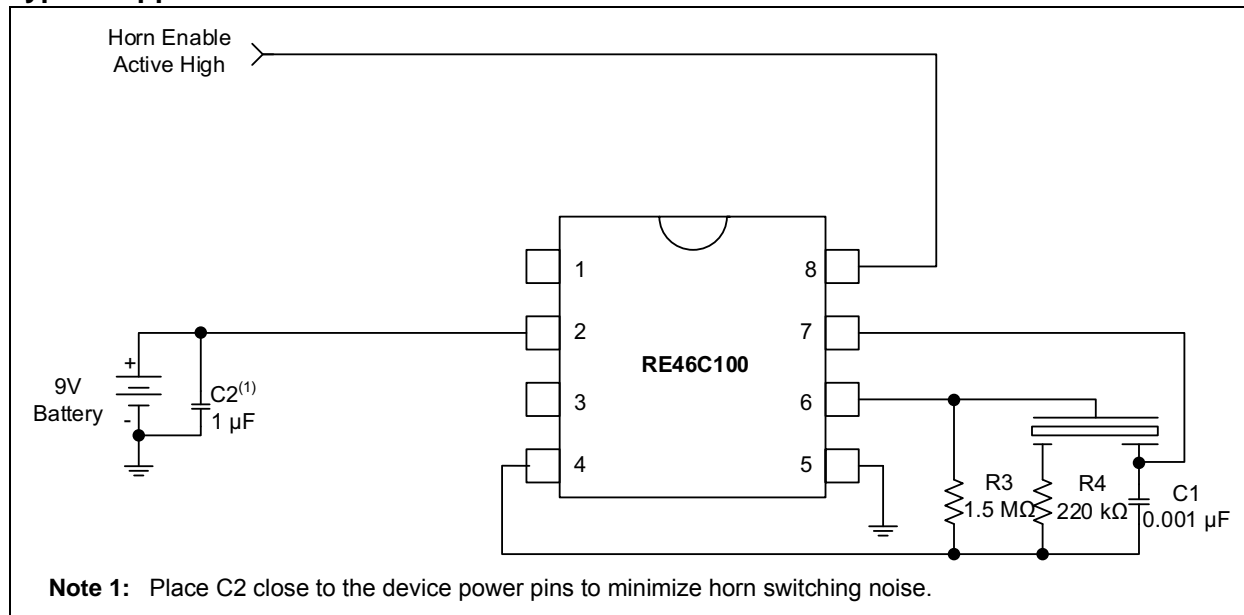


### Functional Block Diagram



# RE46C100

## Typical Application



## 1.0 ELECTRICAL CHARACTERISTICS

### Absolute Maximum Ratings†

|  |                                     |
|--|-------------------------------------|
| Supply Voltage.....                        | $V_{DD} = 18V$                      |
| Input Voltage Range Except FEED, TEST..... | $V_{IN} = -0.3V$ to $V_{DD} + 0.3V$ |
| FEED Input Voltage Range .....             | $V_{INFD} = -10$ to $+22V$          |
| Input Current except FEED .....            | $I_{IN} = 10$ mA                    |
| Operating Temperature.....                 | $T_A = -40$ to $+85^{\circ}C$       |
| Storage Temperature .....                  | $T_{STG} = -55$ to $+125^{\circ}C$  |
| Maximum Junction Temperature .....         | $T_J = +150^{\circ}C$               |

† **Notice:** Stresses above those listed under “Maximum ratings” may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operation listings of this specification is not implied. Exposure to maximum rating conditions for extended periods may affect device reliability.

### DC ELECTRICAL CHARACTERISTICS

**DC Electrical Characteristics:** Unless otherwise indicated, all parameters apply at  $T_A = +25^{\circ}C$ ,  $V_{DD} = 9V$ , Typical Application.

| Parameter           | Symbol    | Test Pin | Min. | Typ. | Max. | Units   | Conditions                         |
|---------------------|-----------|----------|------|------|------|---------|------------------------------------|
| Supply Voltage      | $V_{DD}$  | 2        | 6    | 9    | 16   | V       | Operating                          |
| Supply Current      | $I_{DD1}$ | 2        | —    | —    | 100  | nA      | HRNEN = 0V, FEED = 0V              |
| Input Voltage Low   | $V_{IL1}$ | 8        | —    | —    | 1    | V       |                                    |
| Input Voltage High  | $V_{IH1}$ | 8        | 2.3  | —    | —    | V       |                                    |
| Input Leakage Low   | $I_{IL1}$ | 8        | —    | —    | -100 | nA      | $V_{IN} = V_{SS}$                  |
|                     | $I_{LFD}$ | 4        | —    | —    | -50  | $\mu A$ | FEED = -10V                        |
| Input Leakage High  | $I_{IH1}$ | 8        | —    | —    | 100  | nA      | $V_{IN} = V_{DD}$                  |
|                     | $I_{HFD}$ | 4        | —    | —    | 50   | $\mu A$ | FEED = 22V                         |
| Output Voltage Low  | $V_{OL1}$ | 6, 7     | —    | 0.3  | 0.5  | V       | $I_{OL} = 16$ mA                   |
|                     | $V_{OL2}$ | 6, 7     | —    | —    | 0.9  | V       | $I_{OL} = 16$ mA, $V_{DD} = 7.2V$  |
| Output Voltage High | $V_{OH1}$ | 6, 7     | 8.5  | 8.7  | —    | V       | $I_{OH} = -16$ mA                  |
|                     | $V_{OH2}$ | 6, 7     | 6.3  | —    | —    | V       | $I_{OH} = -16$ mA, $V_{DD} = 7.2V$ |

### TEMPERATURE SPECIFICATIONS

**Electrical Specifications:** Unless otherwise indicated, all parameters apply at  $T_A = +25^{\circ}C$ ,  $V_{DD} = 9V$ , Typical Application.

| Parameters                         | Sym.          | Min. | Typ.  | Max. | Units         | Conditions |
|------------------------------------|---------------|------|-------|------|---------------|------------|
| <b>Temperature Ranges</b>          |               |      |       |      |               |            |
| Operating Temperature Range        | $T_A$         | -40  | —     | +85  | $^{\circ}C$   |            |
| Storage Temperature Range          | $T_{STG}$     | -55  | —     | +125 | $^{\circ}C$   |            |
| <b>Thermal Package Resistances</b> |               |      |       |      |               |            |
| Thermal Resistance, 8L 2x3 DFN     | $\theta_{JA}$ | —    | 75    | —    | $^{\circ}C/W$ |            |
| Thermal Resistance, 8L-PDIP        | $\theta_{JA}$ | —    | 89.3  | —    | $^{\circ}C/W$ |            |
| Thermal Resistance, 8L-SOIC        | $\theta_{JA}$ | —    | 149.5 | —    | $^{\circ}C/W$ |            |

# RE46C100

---

## 2.0 PIN DESCRIPTIONS

The descriptions of the pins are listed in [Table 2-1](#).

**TABLE 2-1: PIN FUNCTION TABLE**

| RE46C100<br>PDIP, SOIC | RE46C100<br>DFN | Symbol          | Description  |
|------------------------|-----------------|-----------------|--|
| 1                      | 1               | NC              | No connection  |
| 2                      | 2               | V <sub>DD</sub> | Connect to the positive supply voltage   |
| 3                      | 3               | NC              | No connection  |
| 4                      | 4               | FEED            | Usually connected to the feedback electrode through a current-limiting resistor. If not used, this pin must be connected to V <sub>DD</sub> or V <sub>SS</sub> . |
| 5                      | 5               | V <sub>SS</sub> | Connect to the negative supply voltage   |
| 6                      | 6               | HORNB           | This pin is connected to the metal electrode of a piezoelectric transducer.  |
| 7                      | 7               | HORNS           | This pin is a complementary output to HORNB, connected to the ceramic electrode of the piezoelectric transducer.   |
| 8                      | 8               | HRNEN           | This pin enables the horn with a logic high.   |
| —                      | 9               | EP              | Exposed thermal pad. This pad should be connected to V <sub>SS</sub> .   |

## 3.0 DEVICE DESCRIPTION

The RE46C100 horn driver provides the circuitry necessary to drive a three-terminal self-oscillating piezoelectric horn. It can also drive a two-terminal piezoelectric horn with the FEED pin used as a signal input. The horn driver provides a push-pull circuit to drive the horn, as shown in the [Typical Application](#) circuit.

In a self-oscillating application, the FEED pin is connected to the feedback pin of the piezoelectric horn through a resistor. To drive a two-terminal piezoelectric horn with an external signal, the FEED pin should be used as the external signal input. The horn is enabled when HRNEN is driven to a logic high and is silenced when HRNEN is driven to a logic low. The horn output can be modulated using the HRNEN input.

# RE46C100

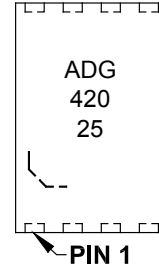
## 4.0 PACKAGING INFORMATION

### 4.1 Package Marking Information

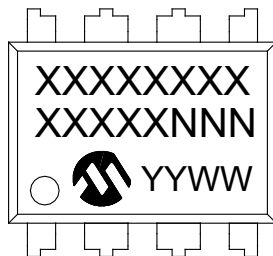
8-Lead DFN (2x3x0.9 mm)



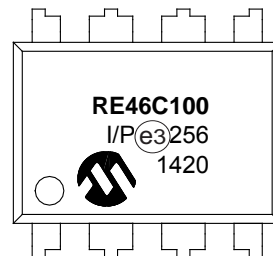
Example



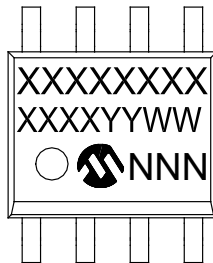
8-Lead PDIP (300 mil)



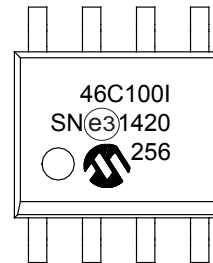
Example



8-Lead SOIC (3.90 mm)



Example

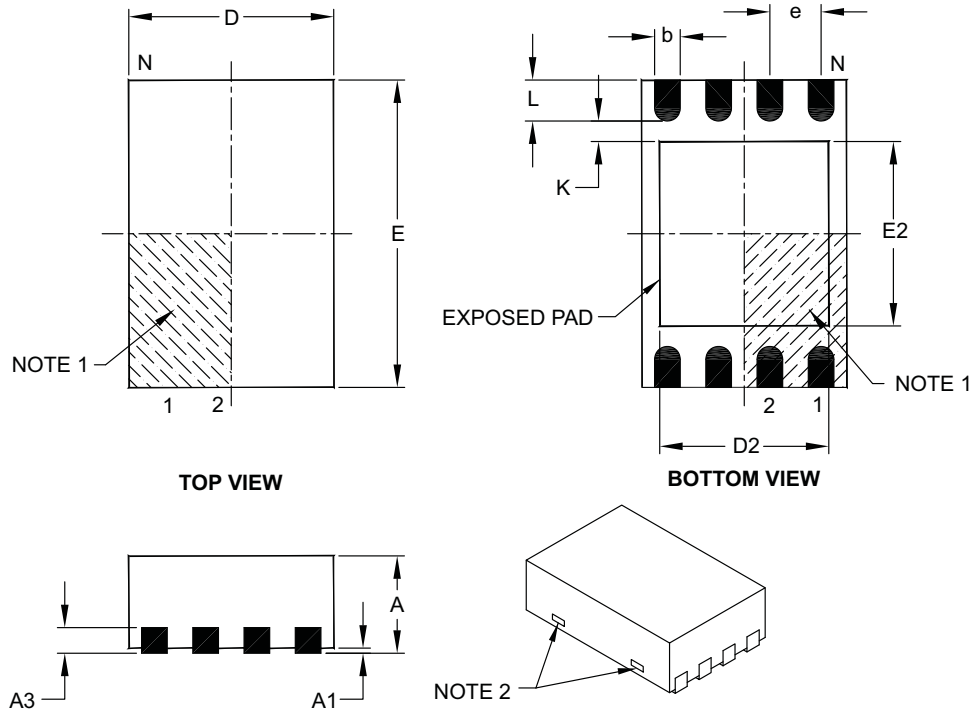


|                |        |  |
|----------------|--------|--|
| <b>Legend:</b> | XX...X | Customer-specific information  |
|                | Y      | Year code (last digit of calendar year)  |
|                | YY     | Year code (last 2 digits of calendar year)   |
|                | WW     | Week code (week of January 1 is week '01')   |
|                | NNN    | Alphanumeric traceability code   |
|                | (e3)   | Pb-free JEDEC designator for Matte Tin (Sn)  |
|                | *      | This package is Pb-free. The Pb-free JEDEC designator (e3) can be found on the outer packaging for this package. |

**Note:** In the event the full Microchip part number cannot be marked on one line, it will be carried over to the next line, thus limiting the number of available characters for customer-specific information.

## 8-Lead Plastic Dual Flat, No Lead Package (MC) – 2x3x0.9 mm Body [DFN]

**Note:** For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>



| Dimension Limits       | Units | MILLIMETERS |      |      |
|------------------------|-------|-------------|------|------|
|                        |       | MIN         | NOM  | MAX  |
| Number of Pins         | N     | 8           |      |      |
| Pitch                  | e     | 0.50 BSC    |      |      |
| Overall Height         | A     | 0.80        | 0.90 | 1.00 |
| Standoff               | A1    | 0.00        | 0.02 | 0.05 |
| Contact Thickness      | A3    | 0.20 REF    |      |      |
| Overall Length         | D     | 2.00 BSC    |      |      |
| Overall Width          | E     | 3.00 BSC    |      |      |
| Exposed Pad Length     | D2    | 1.30        | –    | 1.55 |
| Exposed Pad Width      | E2    | 1.50        | –    | 1.75 |
| Contact Width          | b     | 0.20        | 0.25 | 0.30 |
| Contact Length         | L     | 0.30        | 0.40 | 0.50 |
| Contact-to-Exposed Pad | K     | 0.20        | –    | –    |

**Notes:**

- Pin 1 visual index feature may vary, but must be located within the hatched area.
- Package may have one or more exposed tie bars at ends.
- Package is saw singulated.
- Dimensioning and tolerancing per ASME Y14.5M.

BSC: Basic Dimension. Theoretically exact value shown without tolerances.

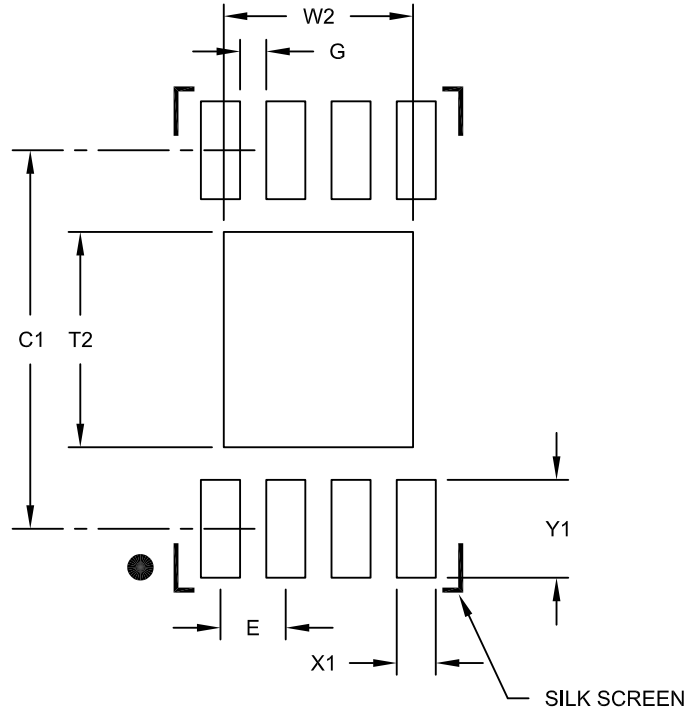
REF: Reference Dimension, usually without tolerance, for information purposes only.

Microchip Technology Drawing C04-123C

# RE46C100

8-Lead Plastic Dual Flat, No Lead Package (MC) - 2x3x0.9mm Body [DFN]

**Note:** For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>



RECOMMENDED LAND PATTERN

| Dimension Limits           | Units | MILLIMETERS |      |      |
|----------------------------|-------|-------------|------|------|
|                            |       | MIN         | NOM  | MAX  |
| Contact Pitch              | E     | 0.50 BSC    |      |      |
| Optional Center Pad Width  | W2    |             |      | 1.45 |
| Optional Center Pad Length | T2    |             |      | 1.75 |
| Contact Pad Spacing        | C1    |             | 2.90 |      |
| Contact Pad Width (X8)     | X1    |             |      | 0.30 |
| Contact Pad Length (X8)    | Y1    |             |      | 0.75 |
| Distance Between Pads      | G     | 0.20        |      |      |

Notes:

1. Dimensioning and tolerancing per ASME Y14.5M

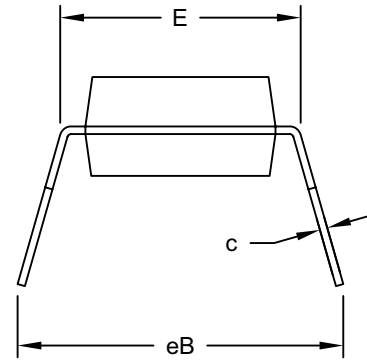
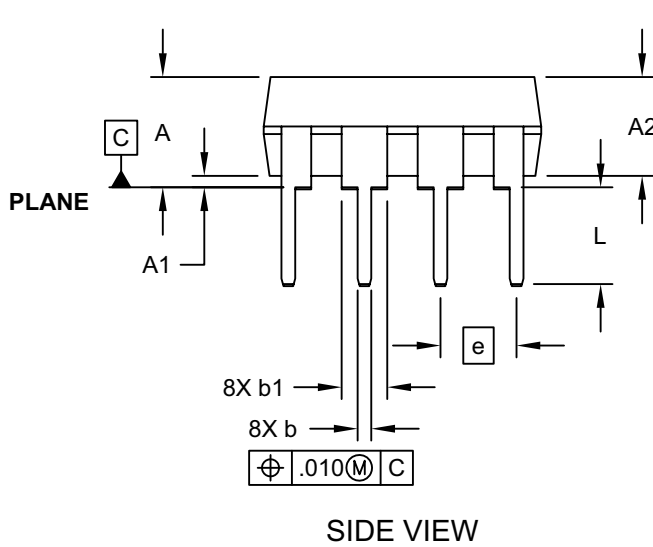
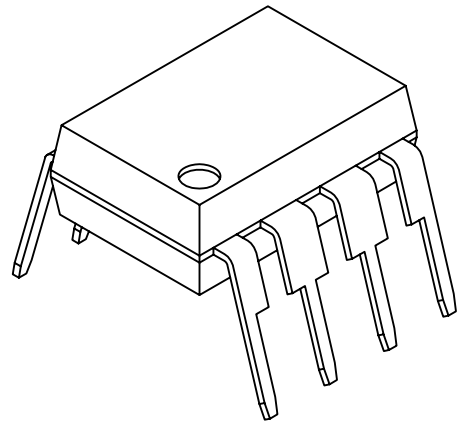
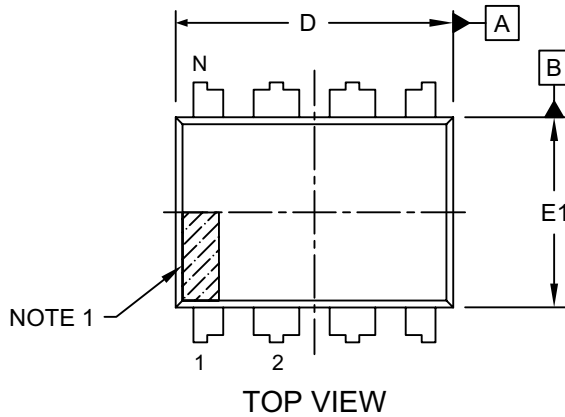
BSC: Basic Dimension. Theoretically exact value shown without tolerances.

Microchip Technology Drawing No. C04-2123B



## 8-Lead Plastic Dual In-Line (P) - 300 mil Body [PDIP]

**Note:** For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>



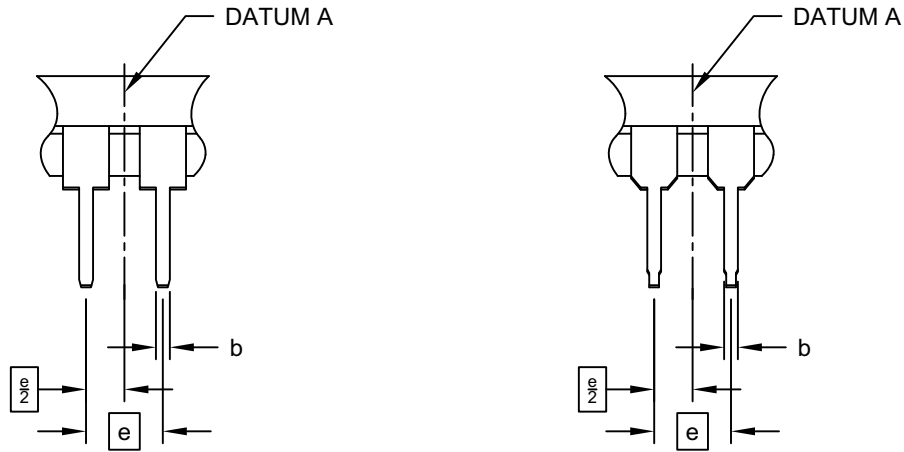
Microchip Technology Drawing No. C04-018D Sheet 1 of 2

# RE46C100

## 8-Lead Plastic Dual In-Line (P) - 300 mil Body [PDIP]

**Note:** For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>

### ALTERNATE LEAD DESIGN (VENDOR DEPENDENT)



|                            |    | Units | INCHES   |      |      |
|----------------------------|----|-------|----------|------|------|
| Dimension Limits           |    |       | MIN      | NOM  | MAX  |
| Number of Pins             | N  |       | 8        |      |      |
| Pitch                      | e  |       | .100 BSC |      |      |
| Top to Seating Plane       | A  | -     | -        | -    | .210 |
| Molded Package Thickness   | A2 | .115  | .130     | .195 |      |
| Base to Seating Plane      | A1 | .015  | -        | -    |      |
| Shoulder to Shoulder Width | E  | .290  | .310     | .325 |      |
| Molded Package Width       | E1 | .240  | .250     | .280 |      |
| Overall Length             | D  | .348  | .365     | .400 |      |
| Tip to Seating Plane       | L  | .115  | .130     | .150 |      |
| Lead Thickness             | c  | .008  | .010     | .015 |      |
| Upper Lead Width           | b1 | .040  | .060     | .070 |      |
| Lower Lead Width           | b  | .014  | .018     | .022 |      |
| Overall Row Spacing        | §  | eB    | -        | -    | .430 |

**Notes:**

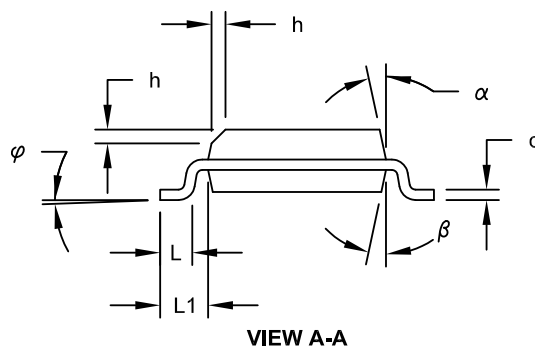
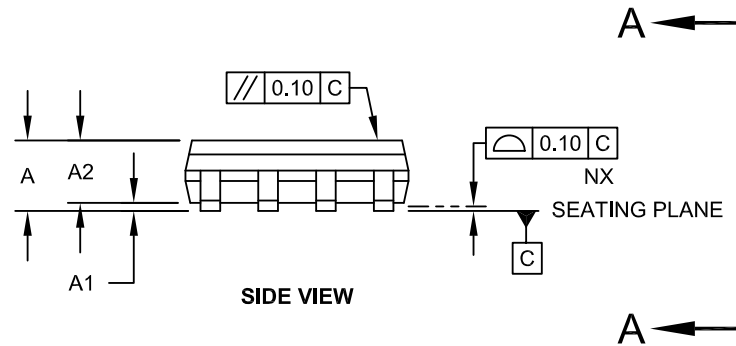
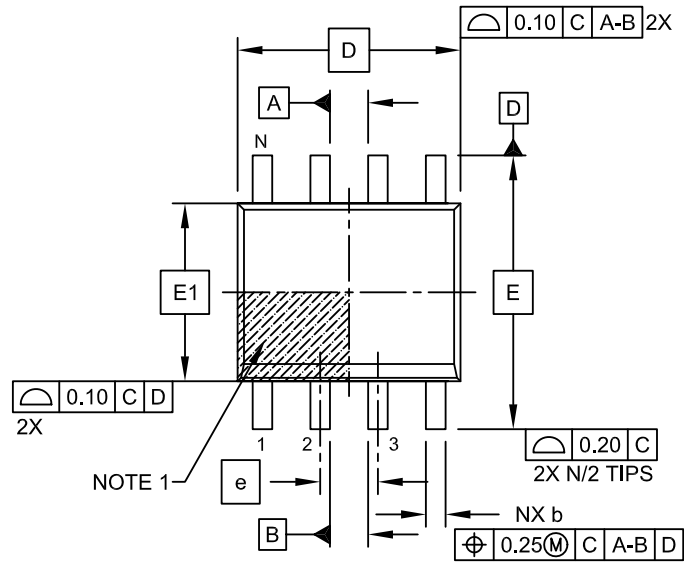
1. Pin 1 visual index feature may vary, but must be located within the hatched area.
2. § Significant Characteristic
3. Dimensions D and E1 do not include mold flash or protrusions. Mold flash or protrusions shall not exceed .010" per side.
4. Dimensioning and tolerancing per ASME Y14.5M

BSC: Basic Dimension. Theoretically exact value shown without tolerances.

Microchip Technology Drawing No. C04-018D Sheet 2 of 2

## 8-Lead Plastic Small Outline (SN) - Narrow, 3.90 mm Body [SOIC]

**Note:** For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>

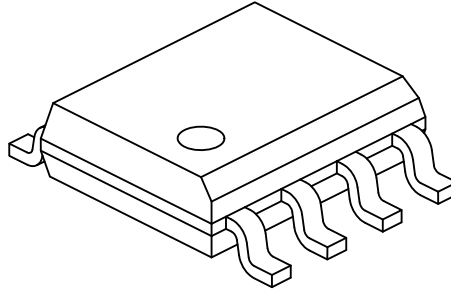


Microchip Technology Drawing No. C04-057C Sheet 1 of 2

# RE46C100

## 8-Lead Plastic Small Outline (SN) - Narrow, 3.90 mm Body [SOIC]

**Note:** For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>



|                          |           | Units | MILLIMETERS |     |      |
|--------------------------|-----------|-------|-------------|-----|------|
| Dimension Limits         |           |       | MIN         | NOM | MAX  |
| Number of Pins           | N         |       | 8           |     |      |
| Pitch                    | e         |       | 1.27 BSC    |     |      |
| Overall Height           | A         |       | -           | -   | 1.75 |
| Molded Package Thickness | A2        |       | 1.25        | -   | -    |
| Standoff §               | A1        |       | 0.10        | -   | 0.25 |
| Overall Width            | E         |       | 6.00 BSC    |     |      |
| Molded Package Width     | E1        |       | 3.90 BSC    |     |      |
| Overall Length           | D         |       | 4.90 BSC    |     |      |
| Chamfer (Optional)       | h         |       | 0.25        | -   | 0.50 |
| Foot Length              | L         |       | 0.40        | -   | 1.27 |
| Footprint                | L1        |       | 1.04 REF    |     |      |
| Foot Angle               | $\varphi$ |       | 0°          | -   | 8°   |
| Lead Thickness           | c         |       | 0.17        | -   | 0.25 |
| Lead Width               | b         |       | 0.31        | -   | 0.51 |
| Mold Draft Angle Top     | $\alpha$  |       | 5°          | -   | 15°  |
| Mold Draft Angle Bottom  | $\beta$   |       | 5°          | -   | 15°  |

### Notes:

1. Pin 1 visual index feature may vary, but must be located within the hatched area.
2. § Significant Characteristic
3. Dimensions D and E1 do not include mold flash or protrusions. Mold flash or protrusions shall not exceed 0.15mm per side.
4. Dimensioning and tolerancing per ASME Y14.5M

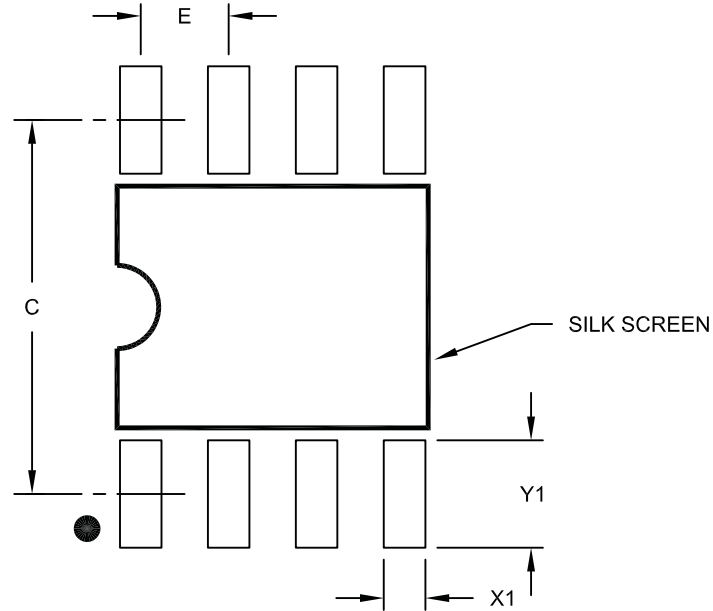
BSC: Basic Dimension. Theoretically exact value shown without tolerances.

REF: Reference Dimension, usually without tolerance, for information purposes only.

Microchip Technology Drawing No. C04-057C Sheet 2 of 2

## 8-Lead Plastic Small Outline (SN) – Narrow, 3.90 mm Body [SOIC]

**Note:** For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>



RECOMMENDED LAND PATTERN

| Dimension Limits        | Units | MILLIMETERS |      |      |
|-------------------------|-------|-------------|------|------|
|                         |       | MIN         | NOM  | MAX  |
| Contact Pitch           | E     | 1.27 BSC    |      |      |
| Contact Pad Spacing     | C     |             | 5.40 |      |
| Contact Pad Width (X8)  | X1    |             |      | 0.60 |
| Contact Pad Length (X8) | Y1    |             |      | 1.55 |

**Notes:**

1. Dimensioning and tolerancing per ASME Y14.5M

BSC: Basic Dimension. Theoretically exact value shown without tolerances.

Microchip Technology Drawing No. C04-2057A

# RE46C100

---

NOTES:

## APPENDIX A: REVISION HISTORY

### Revision B (June 2014)

The following is the list of modifications:

1. Added new package to the family (2x3 DFN) and related information throughout the document.
2. Added thermal package resistance information in [Temperature Specifications](#).
3. Added package markings and drawings for all packages.
4. Added [Product Identification System](#).

### Revision A (May 2009)

- Original Release of this Document.

## PRODUCT IDENTIFICATION SYSTEM

To order or obtain information, e.g., on pricing or delivery, refer to the factory or the listed sales office.

| <b>PART NO.</b>   | <b>X</b>       | <b>XX</b>             | <b>I</b>             | <b>X</b>         |   |
|---|----------------|-----------------------|----------------------|------------------|---|
| <b>Device</b>   | <b>Package</b> | <b>Number of Pins</b> | <b>Tape and Reel</b> | <b>Lead Free</b> |   |
| <b>Device:</b> RE46C100: CMOS Photoelectric Smoke Detector ASIC<br>RE46C100T: CMOS Photoelectric Smoke Detector ASIC (Tape and Reel)                        |                |                       |                      |                  |   |
| <b>Package:</b> D = 8-Lead DFN<br>E = Plastic Dual In-Line (300 mil Body), 8-lead (PDIP)<br>S = Plastic Small Outline - Narrow, 3.90 mm Body, 8-Lead (SOIC) |                |                       |                      |                  |   |
|   |                |                       |                      |                  | <b>Examples:</b><br>a) RE46C100D8F: 8LD DFN Package, Lead Free<br>b) RE46C100D8TF: 8LD DFN Package, Tape and Reel, Lead Free<br>c) RE46C100E8F: 8LD PDIP Package, Lead Free<br>d) RE46C100S8F: 8LD SOIC Package, Lead Free<br>e) RE46C100S8TF: 8LD SOIC Package, Tape and Reel, Lead Free |



---

**Note the following details of the code protection feature on Microchip devices:**

- Microchip products meet the specification contained in their particular Microchip Data Sheet.
- Microchip believes that its family of products is one of the most secure families of its kind on the market today, when used in the intended manner and under normal conditions.
- There are dishonest and possibly illegal methods used to breach the code protection feature. All of these methods, to our knowledge, require using the Microchip products in a manner outside the operating specifications contained in Microchip's Data Sheets. Most likely, the person doing so is engaged in theft of intellectual property.
- Microchip is willing to work with the customer who is concerned about the integrity of their code.
- Neither Microchip nor any other semiconductor manufacturer can guarantee the security of their code. Code protection does not mean that we are guaranteeing the product as “unbreakable.”

Code protection is constantly evolving. We at Microchip are committed to continuously improving the code protection features of our products. Attempts to break Microchip's code protection feature may be a violation of the Digital Millennium Copyright Act. If such acts allow unauthorized access to your software or other copyrighted work, you may have a right to sue for relief under that Act.

---

Information contained in this publication regarding device applications and the like is provided only for your convenience and may be superseded by updates. It is your responsibility to ensure that your application meets with your specifications. MICROCHIP MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL, STATUTORY OR OTHERWISE, RELATED TO THE INFORMATION, INCLUDING BUT NOT LIMITED TO ITS CONDITION, QUALITY, PERFORMANCE, MERCHANTABILITY OR FITNESS FOR PURPOSE. Microchip disclaims all liability arising from this information and its use. Use of Microchip devices in life support and/or safety applications is entirely at the buyer's risk, and the buyer agrees to defend, indemnify and hold harmless Microchip from any and all damages, claims, suits, or expenses resulting from such use. No licenses are conveyed, implicitly or otherwise, under any Microchip intellectual property rights.

#### **Trademarks**

The Microchip name and logo, the Microchip logo, dsPIC, FlashFlex, KEELOQ, KEELOQ logo, MPLAB, PIC, PICmicro, PICSTART, PIC<sup>32</sup> logo, rPIC, SST, SST Logo, SuperFlash and UNI/O are registered trademarks of Microchip Technology Incorporated in the U.S.A. and other countries.

FilterLab, Hampshire, HI-TECH C, Linear Active Thermistor, MTP, SEEVAL and The Embedded Control Solutions Company are registered trademarks of Microchip Technology Incorporated in the U.S.A.

Silicon Storage Technology is a registered trademark of Microchip Technology Inc. in other countries.


Analog-for-the-Digital Age, Application Maestro, BodyCom, chipKIT, chipKIT logo, CodeGuard, dsPICDEM, dsPICDEM.net, dsPICworks, dsSPEAK, ECAN, ECONOMONITOR, FanSense, HI-TIDE, In-Circuit Serial Programming, ICSP, Mindi, MiWi, MPASM, MPF, MPLAB Certified logo, MPLIB, MPLINK, mTouch, Omniclient Code Generation, PICC, PICC-18, PICDEM, PICDEM.net, PICkit, PICTail, REAL ICE, rLAB, Select Mode, SQI, Serial Quad I/O, Total Endurance, TSHARC, UniWinDriver, WiperLock, ZENA and Z-Scale are trademarks of Microchip Technology Incorporated in the U.S.A. and other countries.

SQTP is a service mark of Microchip Technology Incorporated in the U.S.A.

GestIC and ULPP are registered trademarks of Microchip Technology Germany II GmbH & Co. KG, a subsidiary of Microchip Technology Inc., in other countries.

All other trademarks mentioned herein are property of their respective companies.

© 2009-2014, Microchip Technology Incorporated, Printed in the U.S.A., All Rights Reserved.

 Printed on recycled paper.

ISBN: 978-1-63276-287-0

**QUALITY MANAGEMENT SYSTEM**  
**CERTIFIED BY DNV**  
**== ISO/TS 16949 ==**

*Microchip received ISO/TS-16949:2009 certification for its worldwide headquarters, design and wafer fabrication facilities in Chandler and Tempe, Arizona; Gresham, Oregon and design centers in California and India. The Company's quality system processes and procedures are for its PIC<sup>®</sup> MCUs and dsPIC<sup>®</sup> DSCs, KEELOQ<sup>®</sup> code hopping devices, Serial EEPROMs, microperipherals, nonvolatile memory and analog products. In addition, Microchip's quality system for the design and manufacture of development systems is ISO 9001:2000 certified.*



# MICROCHIP

## Worldwide Sales and Service

### AMERICAS

**Corporate Office**  
2355 West Chandler Blvd.  
Chandler, AZ 85224-6199  
Tel: 480-792-7200  
Fax: 480-792-7277  
Technical Support:  
<http://www.microchip.com/support>  
Web Address:  
[www.microchip.com](http://www.microchip.com)

**Atlanta**  
Duluth, GA  
Tel: 678-957-9614  
Fax: 678-957-1455

**Austin, TX**  
Tel: 512-257-3370

**Boston**  
Westborough, MA  
Tel: 774-760-0087  
Fax: 774-760-0088

**Chicago**  
Itasca, IL  
Tel: 630-285-0071  
Fax: 630-285-0075

**Cleveland**  
Independence, OH  
Tel: 216-447-0464  
Fax: 216-447-0643

**Dallas**  
Addison, TX  
Tel: 972-818-7423  
Fax: 972-818-2924

**Detroit**  
Novi, MI  
Tel: 248-848-4000

**Houston, TX**  
Tel: 281-894-5983

**Indianapolis**  
Noblesville, IN  
Tel: 317-773-8323  
Fax: 317-773-5453

**Los Angeles**  
Mission Viejo, CA  
Tel: 949-462-9523  
Fax: 949-462-9608

**New York, NY**  
Tel: 631-435-6000

**San Jose, CA**  
Tel: 408-735-9110

**Canada - Toronto**  
Tel: 905-673-0699  
Fax: 905-673-6509

### ASIA/PACIFIC

**Asia Pacific Office**  
Suites 3707-14, 37th Floor  
Tower 6, The Gateway  
Harbour City, Kowloon  
Hong Kong  
Tel: 852-2943-5100  
Fax: 852-2401-3431

**Australia - Sydney**  
Tel: 61-2-9868-6733  
Fax: 61-2-9868-6755

**China - Beijing**  
Tel: 86-10-8569-7000  
Fax: 86-10-8528-2104

**China - Chengdu**  
Tel: 86-28-8665-5511  
Fax: 86-28-8665-7889

**China - Chongqing**  
Tel: 86-23-8980-9588  
Fax: 86-23-8980-9500

**China - Hangzhou**  
Tel: 86-571-8792-8115  
Fax: 86-571-8792-8116

**China - Hong Kong SAR**  
Tel: 852-2943-5100  
Fax: 852-2401-3431

**China - Nanjing**  
Tel: 86-25-8473-2460  
Fax: 86-25-8473-2470

**China - Qingdao**  
Tel: 86-532-8502-7355  
Fax: 86-532-8502-7205

**China - Shanghai**  
Tel: 86-21-5407-5533  
Fax: 86-21-5407-5066

**China - Shenyang**  
Tel: 86-24-2334-2829  
Fax: 86-24-2334-2393

**China - Shenzhen**  
Tel: 86-755-8864-2200  
Fax: 86-755-8203-1760

**China - Wuhan**  
Tel: 86-27-5980-5300  
Fax: 86-27-5980-5118

**China - Xian**  
Tel: 86-29-8833-7252  
Fax: 86-29-8833-7256

**China - Xiamen**  
Tel: 86-592-2388138  
Fax: 86-592-2388130

**China - Zhuhai**  
Tel: 86-756-3210040  
Fax: 86-756-3210049

### ASIA/PACIFIC

**India - Bangalore**  
Tel: 91-80-3090-4444  
Fax: 91-80-3090-4123

**India - New Delhi**  
Tel: 91-11-4160-8631  
Fax: 91-11-4160-8632

**India - Pune**  
Tel: 91-20-3019-1500

**Japan - Osaka**  
Tel: 81-6-6152-7160  
Fax: 81-6-6152-9310

**Japan - Tokyo**  
Tel: 81-3-6880-3770  
Fax: 81-3-6880-3771

**Korea - Daegu**  
Tel: 82-53-744-4301  
Fax: 82-53-744-4302

**Korea - Seoul**  
Tel: 82-2-554-7200  
Fax: 82-2-558-5932 or  
82-2-558-5934

**Malaysia - Kuala Lumpur**  
Tel: 60-3-6201-9857  
Fax: 60-3-6201-9859

**Malaysia - Penang**  
Tel: 60-4-227-8870  
Fax: 60-4-227-4068

**Philippines - Manila**  
Tel: 63-2-634-9065  
Fax: 63-2-634-9069

**Singapore**  
Tel: 65-6334-8870  
Fax: 65-6334-8850

**Taiwan - Hsin Chu**  
Tel: 886-3-5778-366  
Fax: 886-3-5770-955

**Taiwan - Kaohsiung**  
Tel: 886-7-213-7830

**Taiwan - Taipei**  
Tel: 886-2-2508-8600  
Fax: 886-2-2508-0102

**Thailand - Bangkok**  
Tel: 66-2-694-1351  
Fax: 66-2-694-1350

### EUROPE

**Austria - Wels**  
Tel: 43-7242-2244-39  
Fax: 43-7242-2244-393

**Denmark - Copenhagen**  
Tel: 45-4450-2828  
Fax: 45-4485-2829

**France - Paris**  
Tel: 33-1-69-53-63-20  
Fax: 33-1-69-30-90-79

**Germany - Dusseldorf**  
Tel: 49-2129-3766400

**Germany - Munich**  
Tel: 49-89-627-144-0  
Fax: 49-89-627-144-44

**Germany - Pforzheim**  
Tel: 49-7231-424750

**Italy - Milan**  
Tel: 39-0331-742611  
Fax: 39-0331-466781

**Italy - Venice**  
Tel: 39-049-7625286

**Netherlands - Drunen**  
Tel: 31-416-690399  
Fax: 31-416-690340

**Poland - Warsaw**  
Tel: 48-22-3325737

**Spain - Madrid**  
Tel: 34-91-708-08-90  
Fax: 34-91-708-08-91

**Sweden - Stockholm**  
Tel: 46-8-5090-4654

**UK - Wokingham**  
Tel: 44-118-921-5800  
Fax: 44-118-921-5820

03/25/14

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Microchip:](#)

[RE46C100E8F](#) [RE46C100S8F](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.