






# Product Marking

|   |   |             |                   |                 |                    |           |                 |
|---|---|-------------|-------------------|-----------------|--------------------|-----------|-----------------|
|  | TITLE:<br>PRODUCT PACKAGE MARKING FORMATS |             |                   |                 |                    | MODEL:    |                 |
|   | ENG:<br>KEG                               | DWN:<br>keg | DATE:<br>03/28/06 | SH: OF:<br>1 17 | DWG NO:<br>OFFL133 | REV:<br>G | DATE:<br>112216 |

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|   |   |             |                   |                 |                    |           |                 |
|---|---|-------------|-------------------|-----------------|--------------------|-----------|-----------------|
|  | TITLE:<br>PRODUCT PACKAGE MARKING FORMATS |             |                   |                 |                    | MODEL:    |                 |
|   | ENG:<br>KEG                               | DWN:<br>keg | DATE:<br>03/28/06 | SH: OF:<br>2 17 | DWG NO:<br>OFFL133 | REV:<br>G | DATE:<br>112216 |

| PACKAGE DESCRIPTION                  | PACKAGE CHARACTER DESIGNATION |
|--------------------------------------|-------------------------------|
| 7-Pin DPAK, Surface Mount            | CC                            |
| 7-Pin TO220                          | CD                            |
| 8-Pin TO3                            | CE                            |
| Modular 30-Pin DIP, 1.3 Spacing      | CL                            |
| JEDEC MO-127, 60-Mil Pin             | CR                            |
| JEDEC MO-127, 60-Mil Pin, Copper     | CU                            |
| 7-Pin TO220, Staggered Leads         | CX                            |
| 12-Pin Power Dip, High Voltage       | CW                            |
| JEDEC MO-127, High Voltage           | DC                            |
| 10-Pin Power Dip, 60-Mil Pin         | DE                            |
| 24-Pin PSOP (JEDEC MO-166)           | DF                            |
| 20-Pin PSOP (JEDEC MO-166)           | DK                            |
| 12-Pin Power SIP                     | DP                            |
| 8-Pin Power SIP                      | DQ                            |
| 7-Pin SIP                            | DR                            |
| 10-Pin Ceramic SIP                   | DW                            |
| 8-Pin PSIP, 90° Formed Leads         | EC                            |
| 12-Pin PSIP, 90° Formed Leads        | EE                            |
| 18-Pin DIP, 25-Mil Pin               | EL                            |
| 11-Pin ZIP                           | EN                            |
| 8-Pin PSIP, Gull Wing Leads          | EP                            |
| 12-Pin Molded Plastic SIP            | EU                            |
| Modular 42-Pin DIP, 1.3 Spacing      | FC                            |
| Modular 34-Pin DIP, 1.3 Spacing      | FD                            |
| 10-Pin Power SIP                     | FL                            |
| 10-Pin PSIP, 90° Formed Leads        | FU                            |
| 8-pin DIP SMT Long                   | GD                            |
| 14-pin DIP SMT                       | GE                            |
| 8-pin DIP SMT Short                  | GF                            |
| 14-pin Hermetic Ceramic DIP          | HC                            |
| 20-lead Ceramic LCC                  | HD                            |
| 44-Pin HSOP Slug Down (JEDEC MO-166) | HR                            |
| 44-Pin HSOP Slug Up (JEDEC MO-166)   | HU                            |
| Modular 58-Pin DIP, 2.3 Spacing      | KC                            |
| 8-pin DIP                            | KD                            |
| 42-Pin Modular DIP, 1.4 Spacing      | KF                            |

|   |  |          |                |       |        |                 |        |
|---|--|----------|----------------|-------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |       |        | MODEL:          |        |
|   | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 3 | OF: 17 | DWG NO: OFFL133 | REV: G |

CE PACKAGE (TO-3)  
 CW PACKAGE (12-PIN DIP, HIGH VOLTAGE)  
 DC, DD, CR, CU PACKAGE (MO-127 SERIES)  
 DE PACKAGE (10-PIN DIP SERIES)  
 EL PACKAGE (DIP SERIES)

NOTE : Line three supports the CE package only. Line three on all other packages may have the line removed completely and/or left as an open space.

PA12M/883 \_\_\_\_\_ **Line 1**  
 \_\_\_\_\_ **Line 2**  
 5962-XXXXXXXXXX \_\_\_\_\_ **Line 3**  
 8A603 Q 0337 \_\_\_\_\_ **Line 4**  
 △ USA BeO \_\_\_\_\_ **Line 5**  
 60024 \_\_\_\_\_ **Line 6**

**LINE 1**  
 SMD\* Parts: Apex Model Number  
 Standard Parts: Apex Model Number  
 Custom Parts: Blank

**LINE 2**  
 All Parts: APEX Logo

**LINE 3**  
 SMD Parts: DSCC SMD Part Number  
 Standard Parts: Blank  
 Custom Parts: Apex Model Number

**LINE 4**  
 All Parts: Lot Code      Compliance Indicator      Date Code

```

    ↓                               ↓                               ↓
    8A603                           Q                               0337
    ↓                               ↓                               ↓
    Q = DSCC QML Compliant          2003    Work Week 37
    CH = MIL-H-38534 Compliant
    None = Not Compliant
  
```


**LINE 5**  
 All Parts: ? USA

```

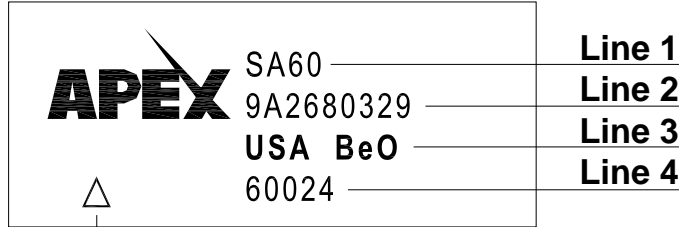
    ↓                               ↓                               ↓
    ESD & Pin 1                      △ USA BeO                      BeO
    Identifier                         ↓                               ↓
    ESD & Pin 1                      ESD & Pin 1                      BeO
    Identifier                         Identifier                      Identifier
  
```

**LINE 6**  
 All Parts: 60024 = APEX CAGE Code

\* SMD = Standardized Military Drawing

|   |  |          |                |       |        |                 |        |
|---|--|----------|----------------|-------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |       |        | MODEL:          |        |
|   | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 4 | OF: 17 | DWG NO: OFFL133 | REV: G |

DN, DP, DQ, DR, EC, ED, EE, EP, ET,EW,EX FL, FP, FU, GL,GN PACKAGE (HYBRID SIP SERIES)



ESD & Pin 1 Identifier

**LINE 1**

Standard Parts: Apex Model Number  
 Custom Parts: Blank

**LINE 2**

All Parts: Lot Code

8A603

Date Code

0337

2003 Work Week 37

**LINE 3**

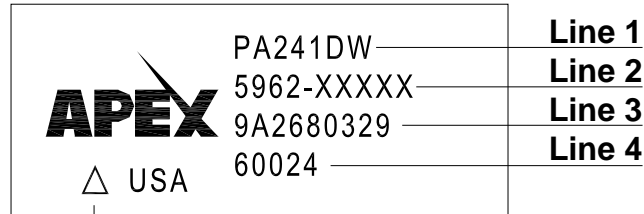
Made in U.S.A., BeO Identifier

**LINE 4**

All Parts: 60024 = APEX CAGE Code

|  |  |          |                |       |        |                 |        |
|--|--|----------|----------------|-------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |       |        | MODEL:          |        |
|  | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 5 | OF: 17 | DWG NO: OFFL133 | REV: G |

DW PACKAGE (HERMETIC SIP)



↓  
ESD & Pin 1 Identifier

**LINE 1**  
Standard Parts: Apex Model Number  
Custom Parts: Blank

**LINE 2**  
Standard Parts: Blank  
Custom Parts: Apex Model Number

**LINE 3**  
All Parts: Lot Code      Date Code

↓

8A603


↓

0329

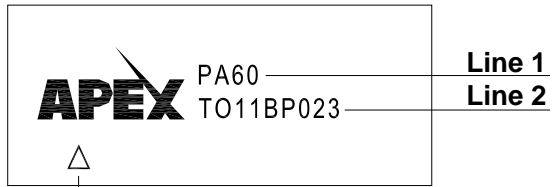
↙      ↘

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**LINE 4**  
All Parts: 60024 = APEX CAGE Code

|   |  |          |                |       |        |                 |        |
|---|--|----------|----------------|-------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |       |        | MODEL:          |        |
|   | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 6 | OF: 17 | DWG NO: OFFL133 | REV: G |

EU, PACKAGE (MONOLITHIC SIP)

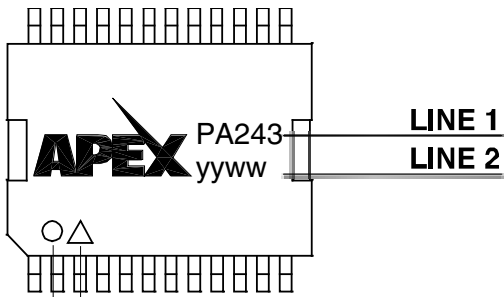


ESD & Pin 1 Identifier

**LINE 1**  
Apex Model Number

**LINE 2**  
Lot Code

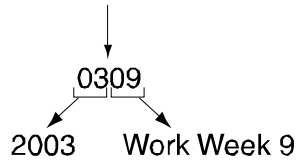
DF PACKAGE (24 PIN PSOP)



Pin 1 Identifier      ESD Identifier

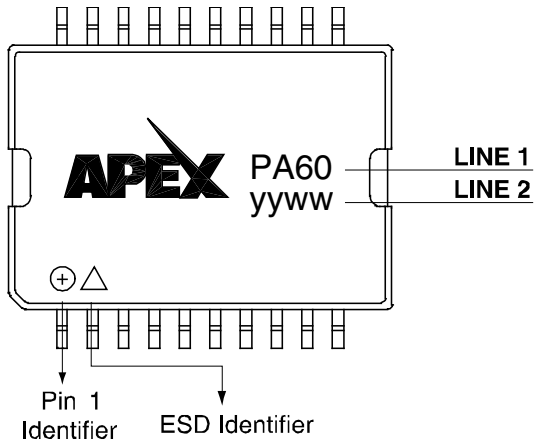
**LINE 1**  
Apex Model Number

**LINE 2**  
All Parts: Date Code



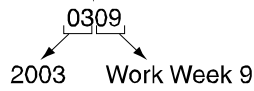
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|--|--|----------|----------------|-------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |       |        | MODEL:          |        |
|  | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 7 | OF: 17 | DWG NO: OFFL133 | REV: G |

DK PACKAGE (20 PIN PSOP)

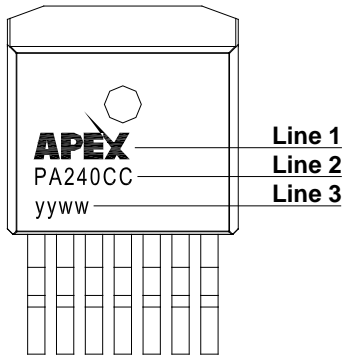


**LINE 1**  
Apex Model Number

**LINE 2**  
All Parts: Date Code



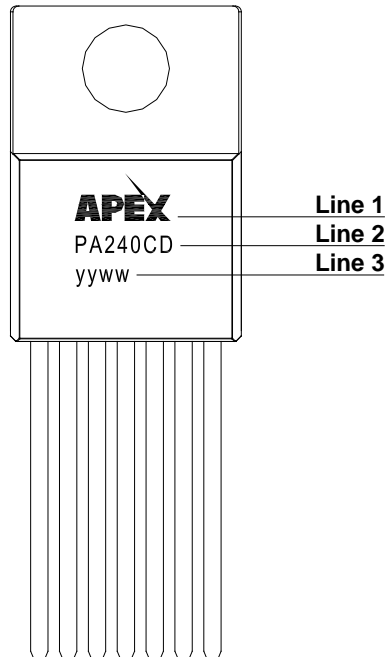
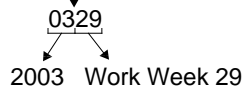
CC PACKAGE (7DDPAK)  
CD, CX PACKAGE (7T0-220)




**LINE 1**  
Apex Logo

**LINE 2**  
Apex Part Number

**LINE 3**  
All Parts: Date Code

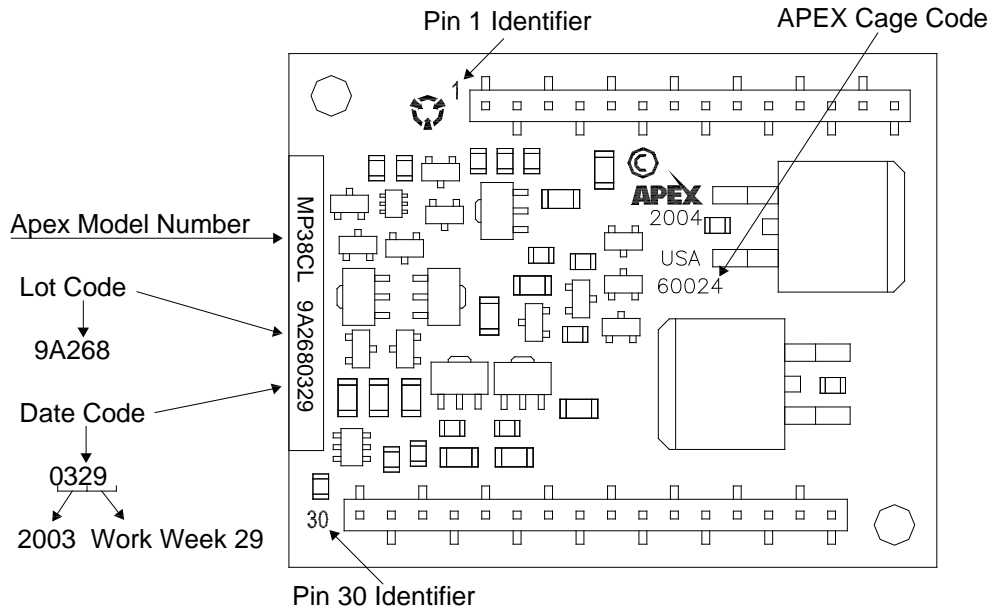


**Line 1**  
**Line 2**  
**Line 3**

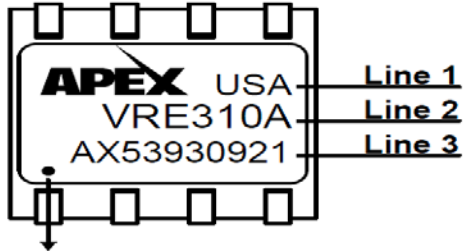
|   |  |          |                |       |        |                 |        |
|---|--|----------|----------------|-------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |       |        | MODEL:          |        |
|   | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 8 | OF: 17 | DWG NO: OFFL133 | REV: G |



CL PACKAGE (30-Pin DIP, 1.3 Spacing)



GD, GF Package (8 pin DIP SMT)  
 KD Package (8 pin DIP)



Pin 1 Identifier


**Line 1**  
 Made in U.S.A.

**Line 2**  
 Standard Parts: Apex Part Number  
 Custom Parts: Blank

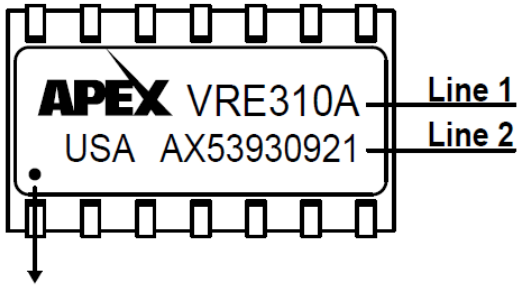
**Line 3**  
 All Parts: Lot Code      Date Code

AX5393      0921

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|   |  |          |                |       |        |                 |        |
|---|--|----------|----------------|-------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |       |        | MODEL:          |        |
|   | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 9 | OF: 17 | DWG NO: OFFL133 | REV: G |

GE Package (14 pin DIP SMT)



Pin 1 Identifier

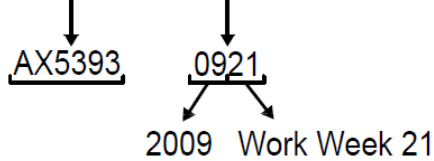
**Line 1**


Standard Parts: Apex Part Number

Custom Parts: Blank

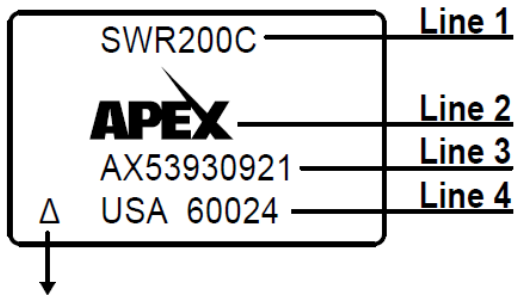
**Line 2**

Made in U.S.A. Lot Code Date Code



|   |  |          |                |               |                 |        |              |
|---|--|----------|----------------|---------------|-----------------|--------|--------------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |               |                 | MODEL: |              |
|   | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 10 OF: 17 | DWG NO: OFFL133 | REV: G | DATE: 112216 |

HC Package (14 pin Hermetic DIP)



ESD & Pin 1  
Identifier

**Line 1**

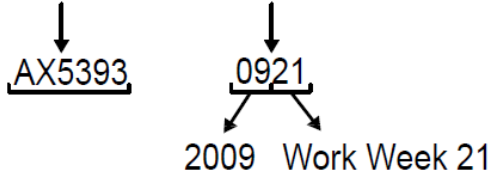
Standard Parts: Apex Part Number  
Custom Parts: Blank

**Line 2**

All Parts: Apex Logo

**Line 3**

All Parts: Lot Code      Date Code

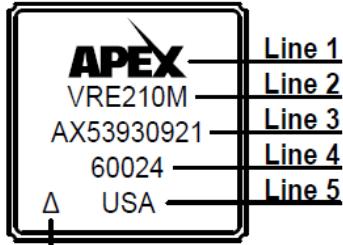


**Line 4**

Made in U.S.A., 60024 = APEX CAGE Code

|  |  |          |                |        |        |                 |        |
|--|--|----------|----------------|--------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |        |        | MODEL:          |        |
|  | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 11 | OF: 17 | DWG NO: OFFL133 | REV: G |

HD Package (20 pin Ceramic LCC)



Pin 1 Identifier

### Line 1

All Parts: Apex Logo

### Line 2

Standard Parts: Apex Part Number

Custom Parts: Blank

### Line 3

All Parts: Lot Code

Date Code

↓  
AX5393

↓  
0921  
↙ ↘  
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### Line 4

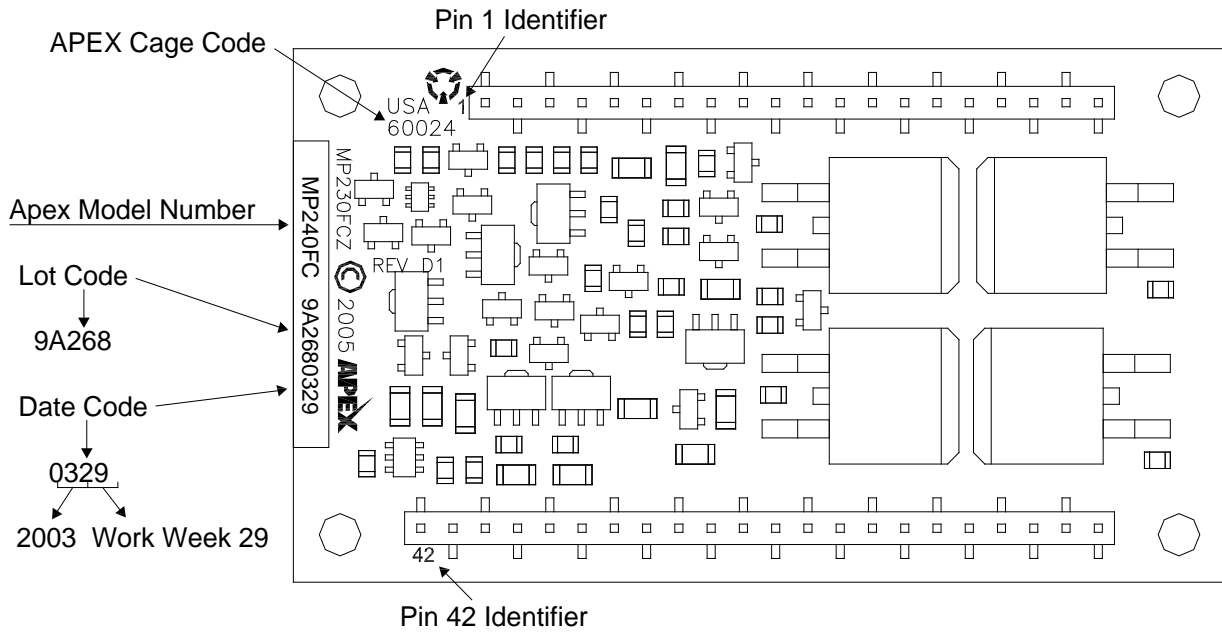
All Parts: 60024 = APEX CAGE Code

### Line 5

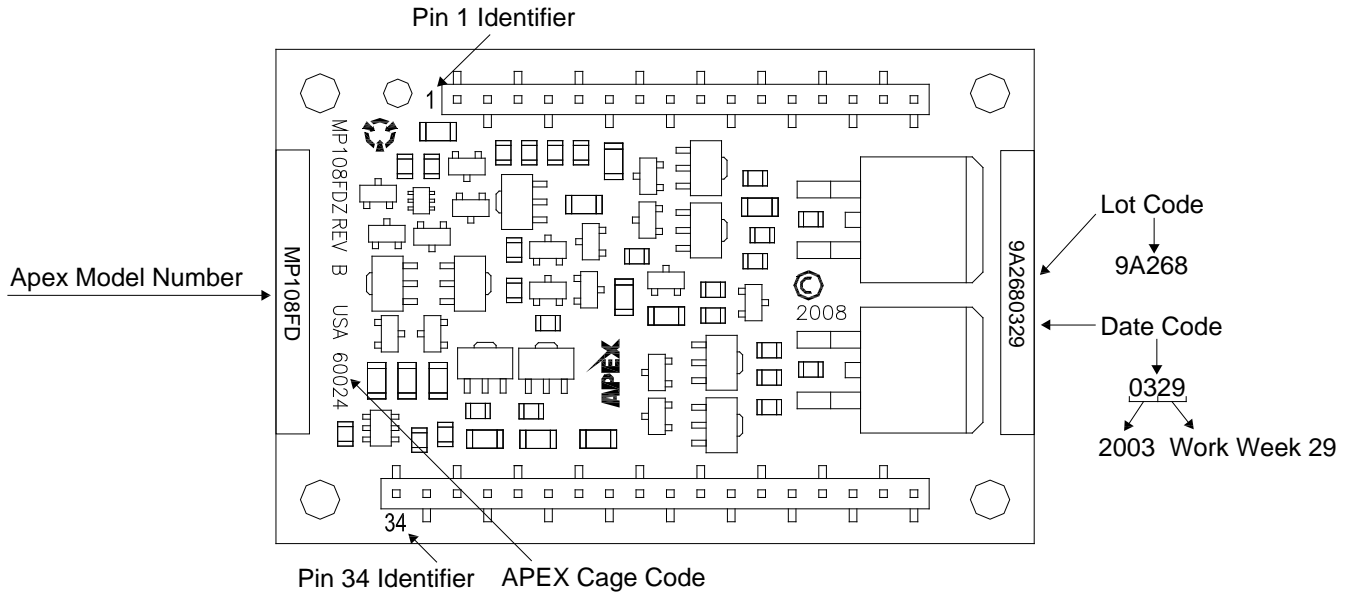
Made in U.S.A.


|  |  |          |                |               |                 |        |              |
|--|--|----------|----------------|---------------|-----------------|--------|--------------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |               |                 | MODEL: |              |
|  | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 12 OF: 17 | DWG NO: OFFL133 | REV: G | DATE: 112216 |

FC PACKAGE

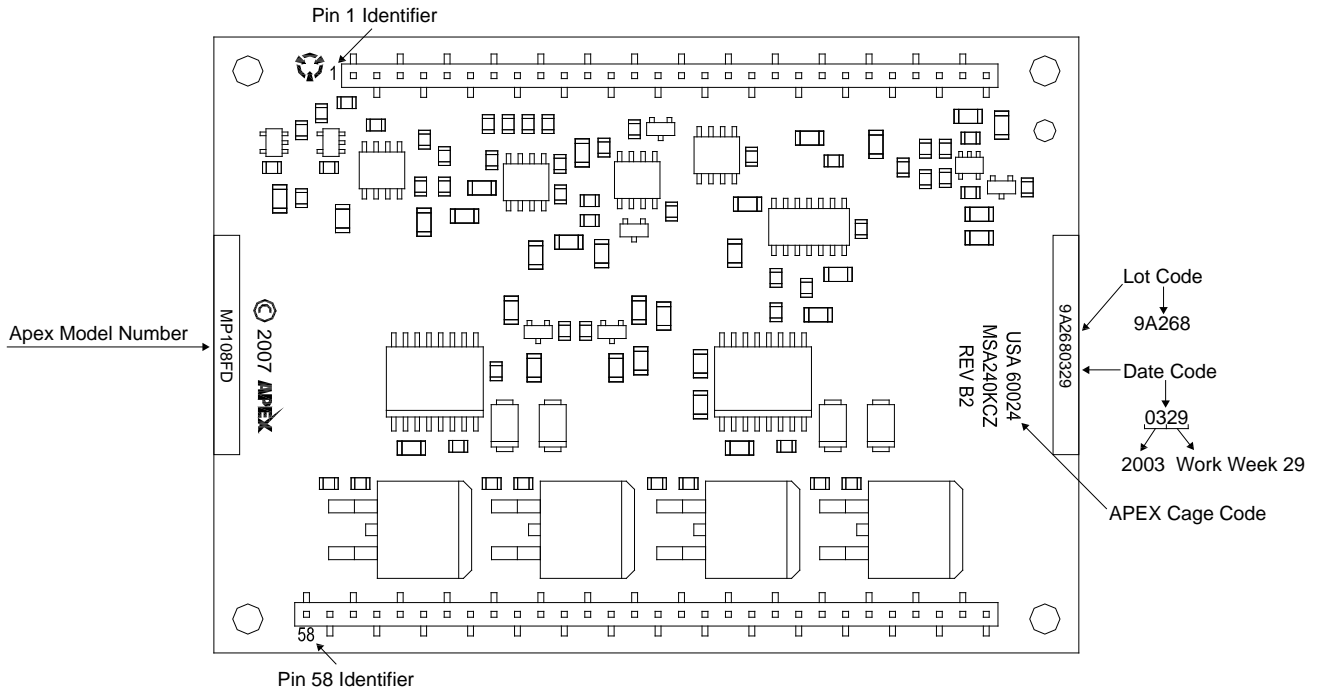


FD PACKAGE




|   |  |          |                |        |        |                 |        |
|---|--|----------|----------------|--------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |        |        | MODEL:          |        |
|   | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 13 | OF: 17 | DWG NO: OFFL133 | REV: G |

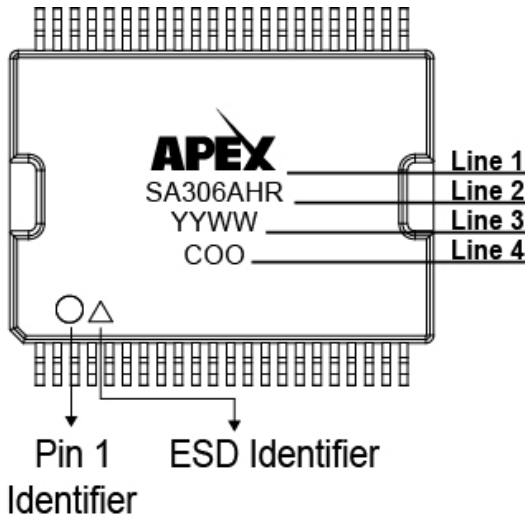
KC PACKAGE



NOTE: - CD20 Marking: Apex Model Number includes the LotCode and Date Code.

|   |  |          |                |        |        |                 |        |
|---|--|----------|----------------|--------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |        |        | MODEL:          |        |
|   | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 14 | OF: 17 | DWG NO: OFFL133 | REV: G |

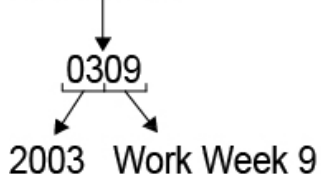
HR 44-Pin HSOP Slug Down (JEDEC MO-166)




**Line 1**  
Apex Logo

**Line 2**  
Apex Part Number

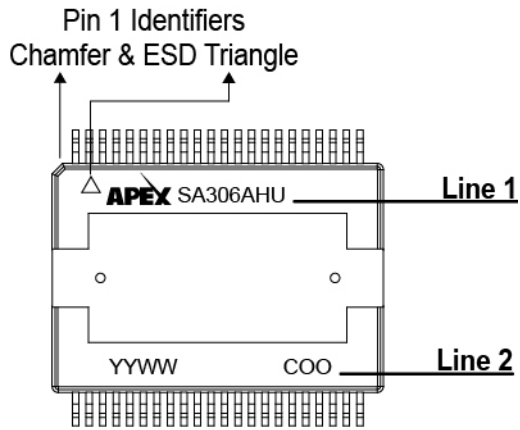
**Line 3**  
Date Code



**Line 4**  
Country of Origin

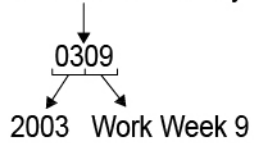
|   |  |          |                |        |        |                 |        |
|---|--|----------|----------------|--------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |        |        | MODEL:          |        |
|   | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 15 | OF: 17 | DWG NO: OFFL133 | REV: G |

HU 44-Pin HSOP Slug Up (JEDEC MO-166)



**Line 1**  
Apex Part Number

**Line 2**  
Date Code, Country of Origin

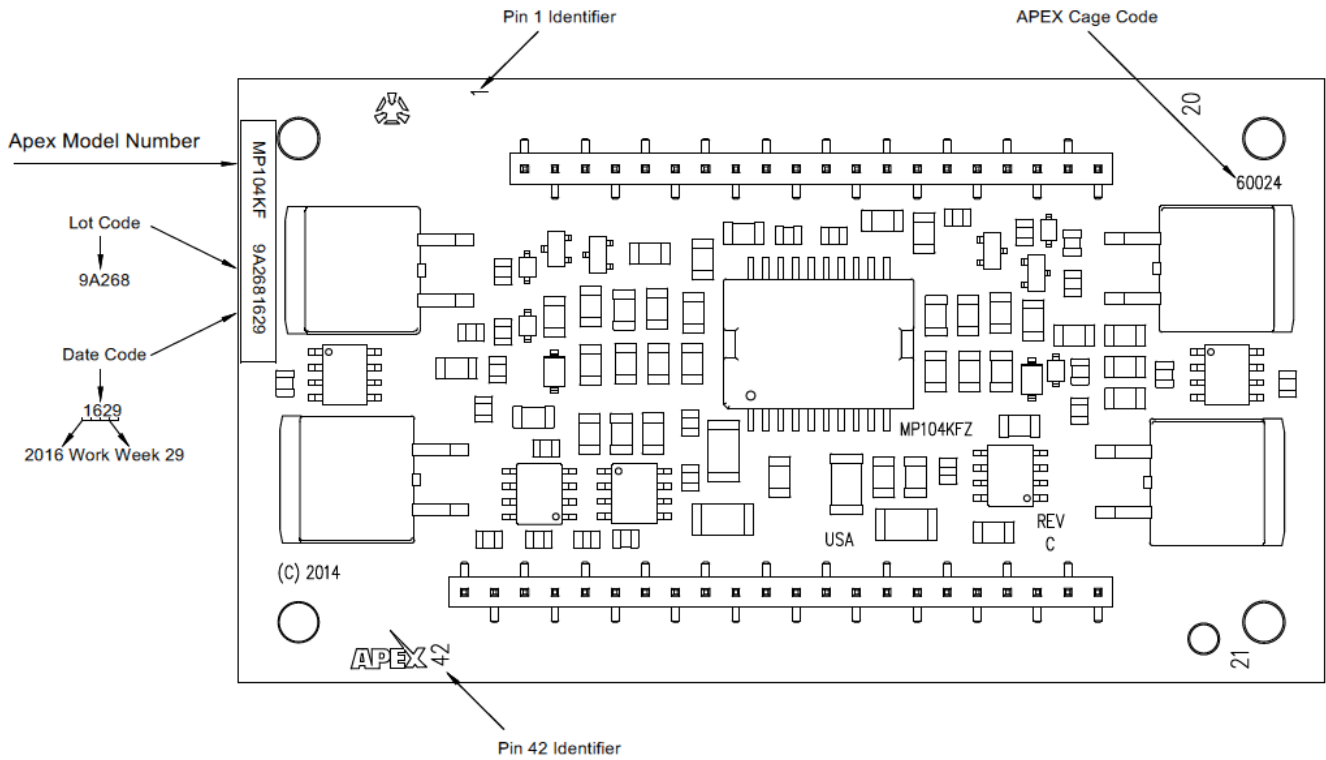


|  |  |          |                |        |        |                 |        |
|--|--|----------|----------------|--------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |        |        | MODEL:          |        |
|  | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 16 | OF: 17 | DWG NO: OFFL133 | REV: G |



# KF -42-Pin Modular DIP, 1.4 Spacing

## KF PACKAGE



|  |  |          |                |        |        |                 |        |
|--|--|----------|----------------|--------|--------|-----------------|--------|
|  | TITLE: PRODUCT PACKAGE MARKING FORMATS |          |                |        |        | MODEL:          |        |
|  | ENG: KEG                               | DWN: keg | DATE: 03/28/06 | SH: 17 | OF: 17 | DWG NO: OFFL133 | REV: G |