






Product Marking

	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 1	OF: 26	DWG NO: OFFL133	REV: M


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 APEX MICROTECHNOLOGY <small>PRECISION • POWER • ANALOG</small>	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: OF: 2 26	DWG NO: OFFL133	REV: M	DATE: 022825

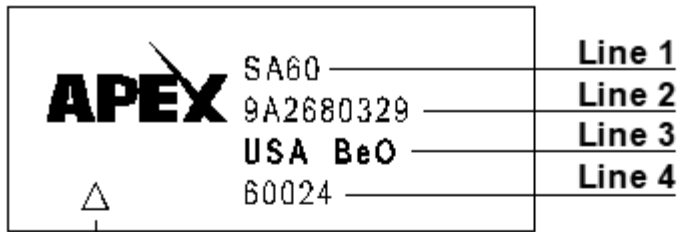
PACKAGE DESCRIPTON	PACKAGE CHARACTER DESIGNATION
7-Pin DDPACK, Surface Mount	CC
7-Pin TO220	CD
8-Pin TO3	CE
Modular 30-Pin DIP, 1.3 Spacing	CL
JEDEC MO-127, 60-Mil Pin	CR
JEDEC MO-127, 60-Mil Pin, Copper	CU
12- Pin Power Dip, High Voltage	CW
7-Pin TO220, Staggered Leads	CX
JEDEC MO-127, High Voltage	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
12-Pin PSIP, 90° FORMED LEADS, TAB DOWN	FP
10-Pin PSIP, 90° Formed Leads	FU
8-pin DIP SMT Long	GD
14-pin DIP SMT	GE
8-pin DIP SMT Short	GF
15-Pin PSIP, .186" LEADS	GL
8-Pin PSIP	GN
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
42-pin DIP, 2.4" SPACING	KK
23-PIN DIP 1.3" SPACING	KL
58-Lead Double Sided Modular Dip, 2.3" Spacing	KN
30-Pin DIP, 3.0" SPACING	KP
16-Pin PDIP, 60MIL PINS	KR
15-Pin SIP, .186" LEADS	LL
Module Edge Conn 60P, 64P	NC
Card-Edge, 50P Input, 100P Ricoh Output	ND
7-pin PSIP	PC
12-Pin PSIP, 90° REVERSE FORMED LEADS	PE

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52 LEAD, 20MM X 20MM, POWER QUAD	PQ
12-Pin PSIP, .09" REVERSE FORMED LEADS	QE
8-Pin Power SIP, 90° Reverse Formed Leads	RC

 <p>APEX MICROTECHNOLOGY PRECISION • POWER • ANALOG</p>	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
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DN, DP, DQ, EC, ED, EE, EP, ET,EW,EX FL, FP, FU, GL,GN, LL, PE, QE, RC PACKAGE (HYBRID SIP SERIES)



ESD & Pin 1 Identifier

LINE 1

Standard Parts: Apex Model Number
 Custom Parts: Blank

LINE 2

APEX Logo All Parts: Lot Code

↓
8A603

Date Code

↓
0337
 ↙ ↘
 2003 Work Week 37

LINE 3

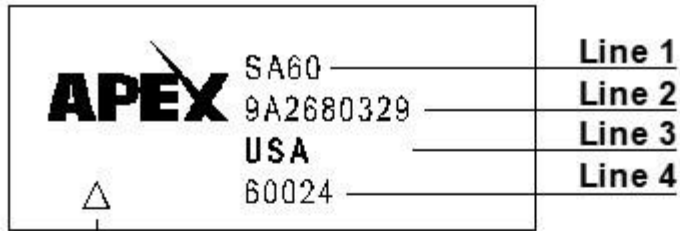
Made in U.S.A., BeO Identifier

LINE 4

"Delta" All Parts: 60024 = APEX CAGE Code

	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 6	OF: 26	DWG NO: OFFL133	REV: M

PC, DR PACKAGE (7-pin SIP)



ESD & Pin 1
Identifier

LINE 1

Standard Parts: Apex Model Number
Custom Parts: Blank

LINE 2

APEX Logo All Parts: Lot Code

8A603

Date Code

0337

2003 Work Week 37

LINE 3

Made in U.S.A.

LINE 4

"Delta" All Parts: 60024 = APEX CAGE Code

	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 7	OF: 26	DWG NO: OFFL133	REV: M

EU, PACKAGE (MONOLITHIC SIP)



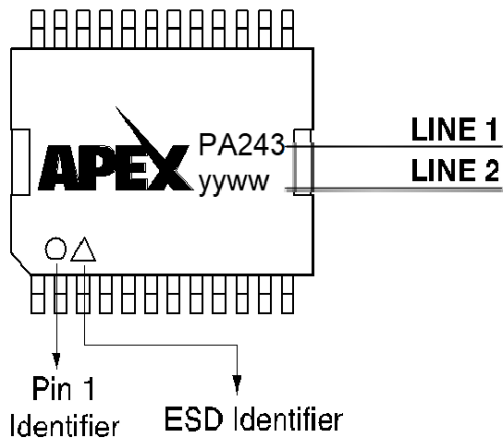
LINE 1

Apex Model Number

LINE 2

APEX Logo Lot Code

DF PACKAGE (24 PIN PSOP)

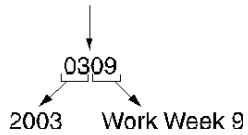


LINE 1

APEX Logo Apex Model Number

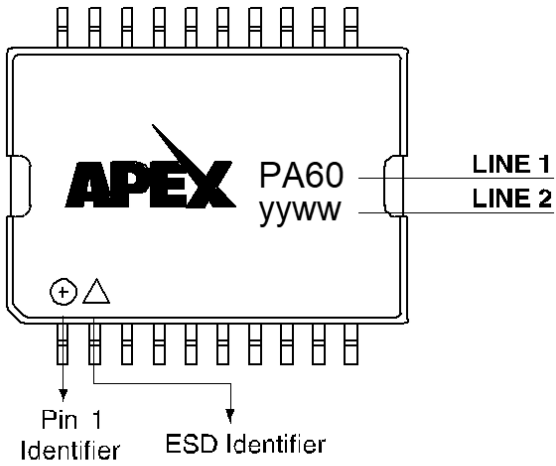
LINE 2

All Parts: Date Code



	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 9	OF: 26	DWG NO: OFFL133	REV: M

DK PACKAGE (20 PIN PSOP)

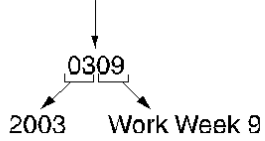


LINE 1

APEX Logo Apex Model Number

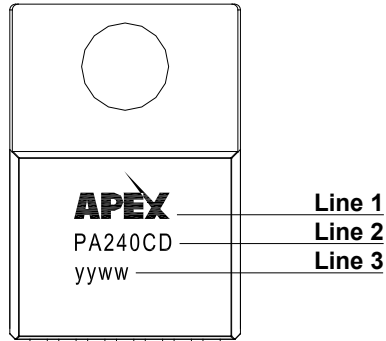
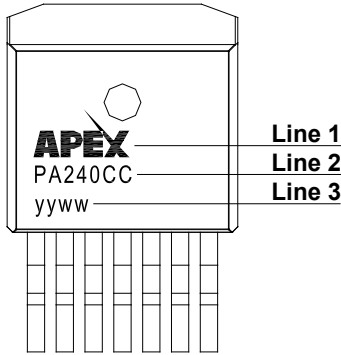
LINE 2

All Parts: Date Code



	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 10	OF: 26	DWG NO: OFFL133	REV: M

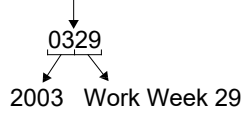
CC PACKAGE (7DDPAK)
 CD, CX PACKAGE (7T0-220)




LINE 1
 Apex Logo

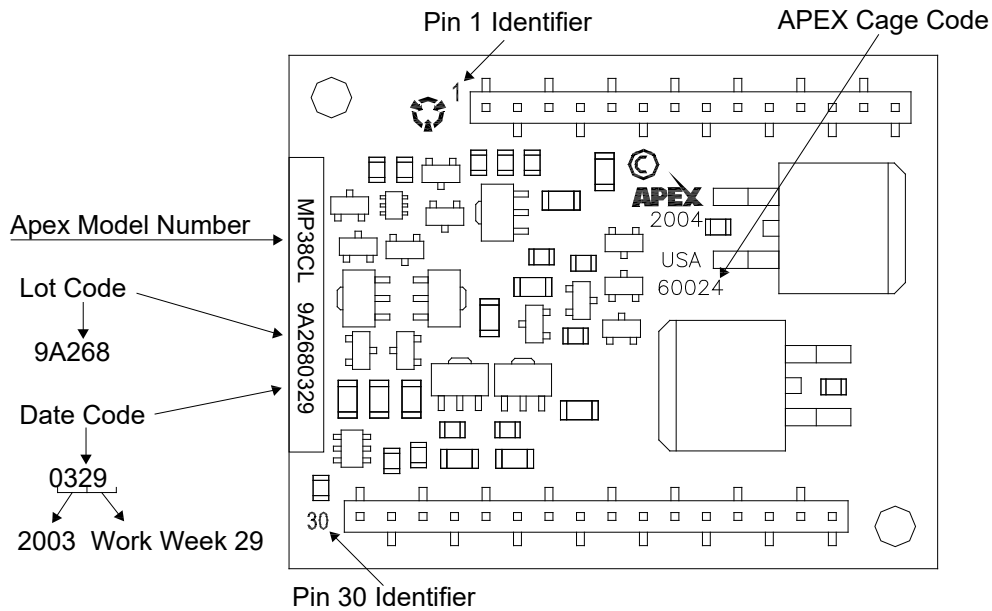
LINE 2
 Apex Part Number

LINE 3
 All Parts: Date Code



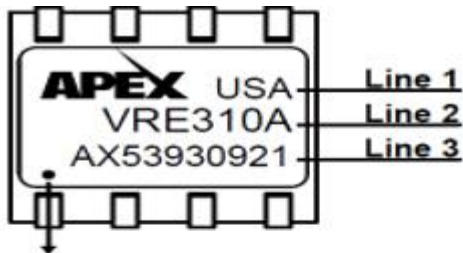
	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 11	OF: 26	DWG NO: OFFL133	REV: M

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

APEX Logo Made in U.S.A

Line 2

Standard Parts: Apex Part Number
Custom Parts: Blank

Line 3


All Parts: Lot Code

Date Code

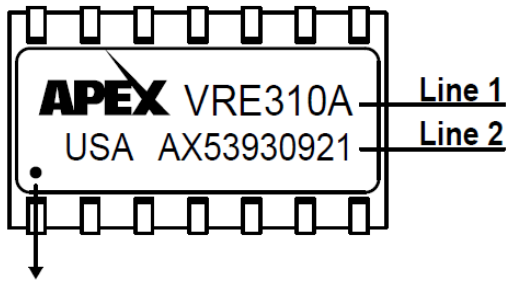
AX5393

0921

2009 Work Week 21

	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 12	OF: 26	DWG NO: OFFL133	REV: M

GE Package (14 pin DIP SMT)



Pin 1 Identifier

Line 1

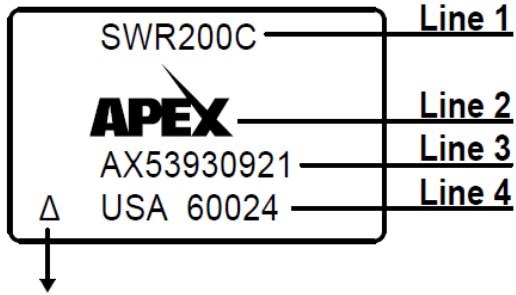
APEX Logo Standard Parts: Apex Part Number
 Custom Parts: Blank

Line 2

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

	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
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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

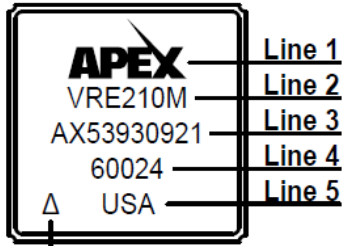
All Parts: Lot Code Date Code

Line 4

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

	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 14	OF: 26	DWG NO: OFFL133	REV: M

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

2009 Work Week 21

Line 4

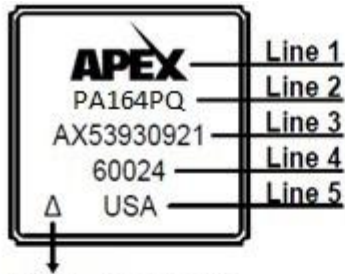
All Parts: 60024 = APEX CAGE Code

Line 5

Made in U.S.A.

	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 15	OF: 26	DWG NO: OFFL133	REV: M

PQ PACKAGE (52 LEAD POWER QUAD)



Pin 1 Identifier

Line 1

All Parts: Apex Logo

Line 2

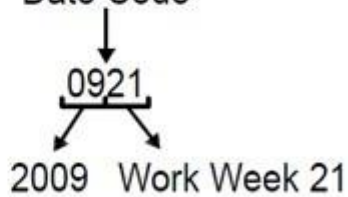
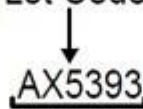
Standard Parts: Apex Part Number

Custom Parts: Blank

Line 3

All Parts: Lot Code

Date Code



Line 4

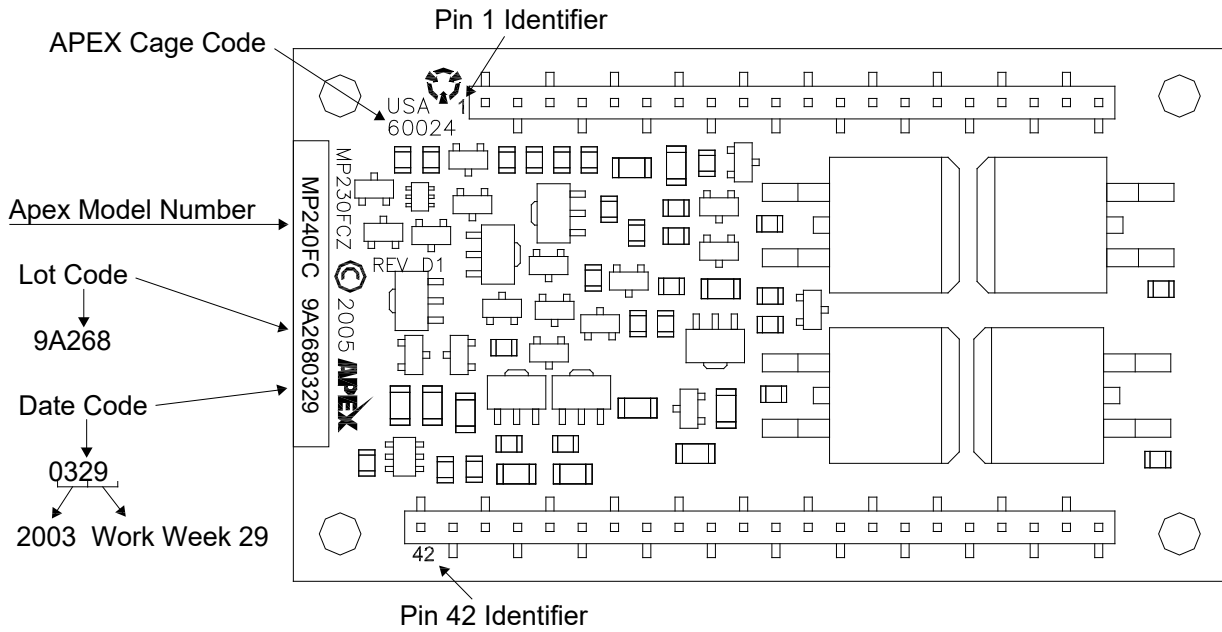
All Parts: 60024 = APEX CAGE Code

Line 5

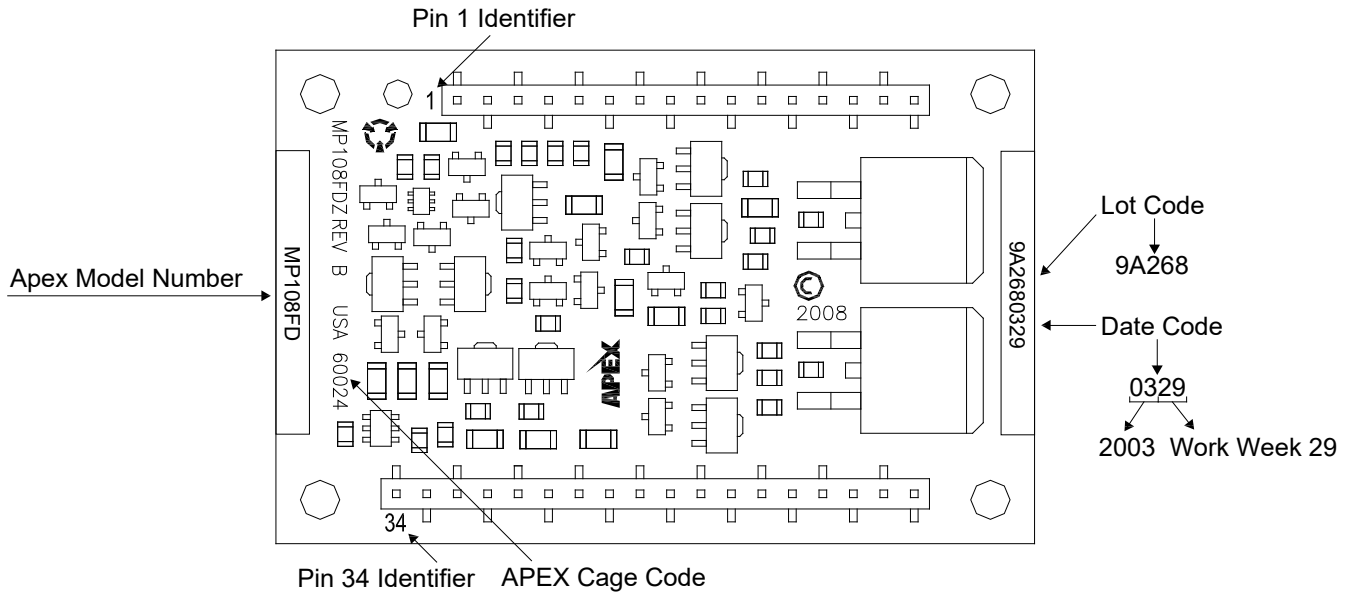
Made in U.S.A.


	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
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FC PACKAGE

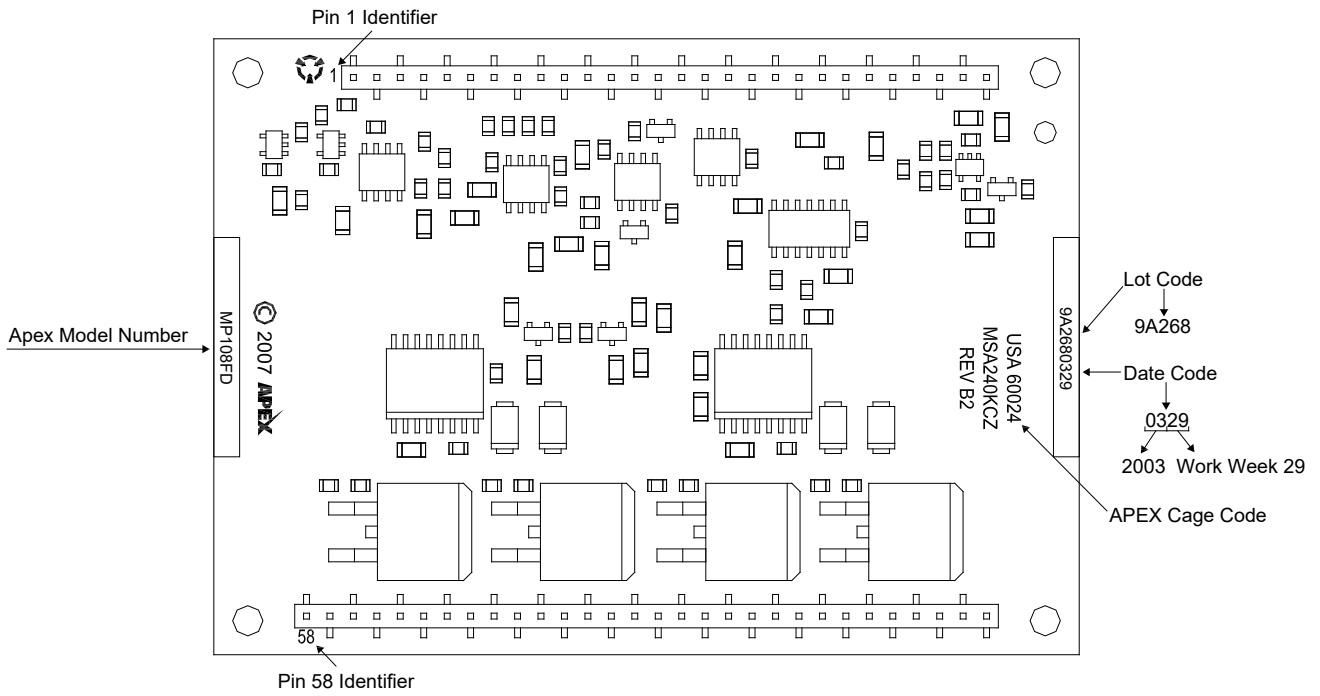


FD PACKAGE




	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 17	OF: 26	DWG NO: OFFL133	REV: M

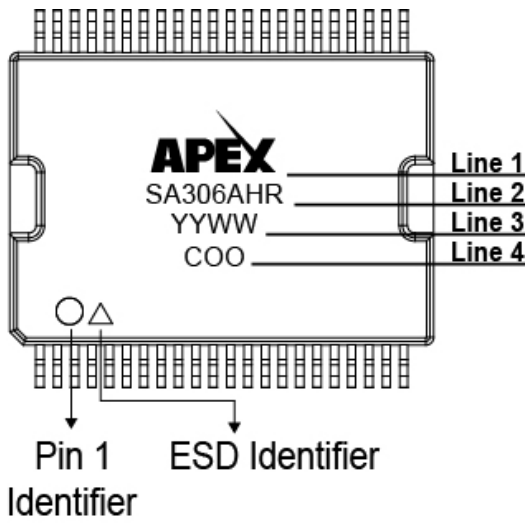
KC PACKAGE



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

	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 18	OF: 26	DWG NO: OFFL133	REV: M

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




Line 1
Apex Logo

Line 2
Apex Part Number

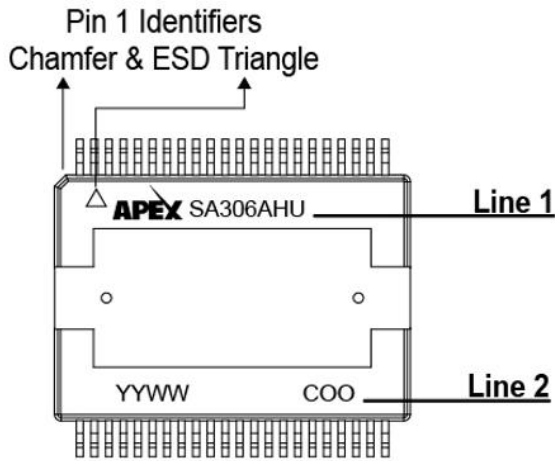
Line 3
Date Code

↓
0309
↙ ↘
2003 Work Week 9

Line 4
Country of Origin

	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 19	OF: 26	DWG NO: OFFL133	REV: M

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

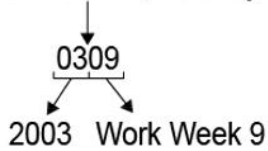



Line 1

APEX Logo Apex Part Number

Line 2

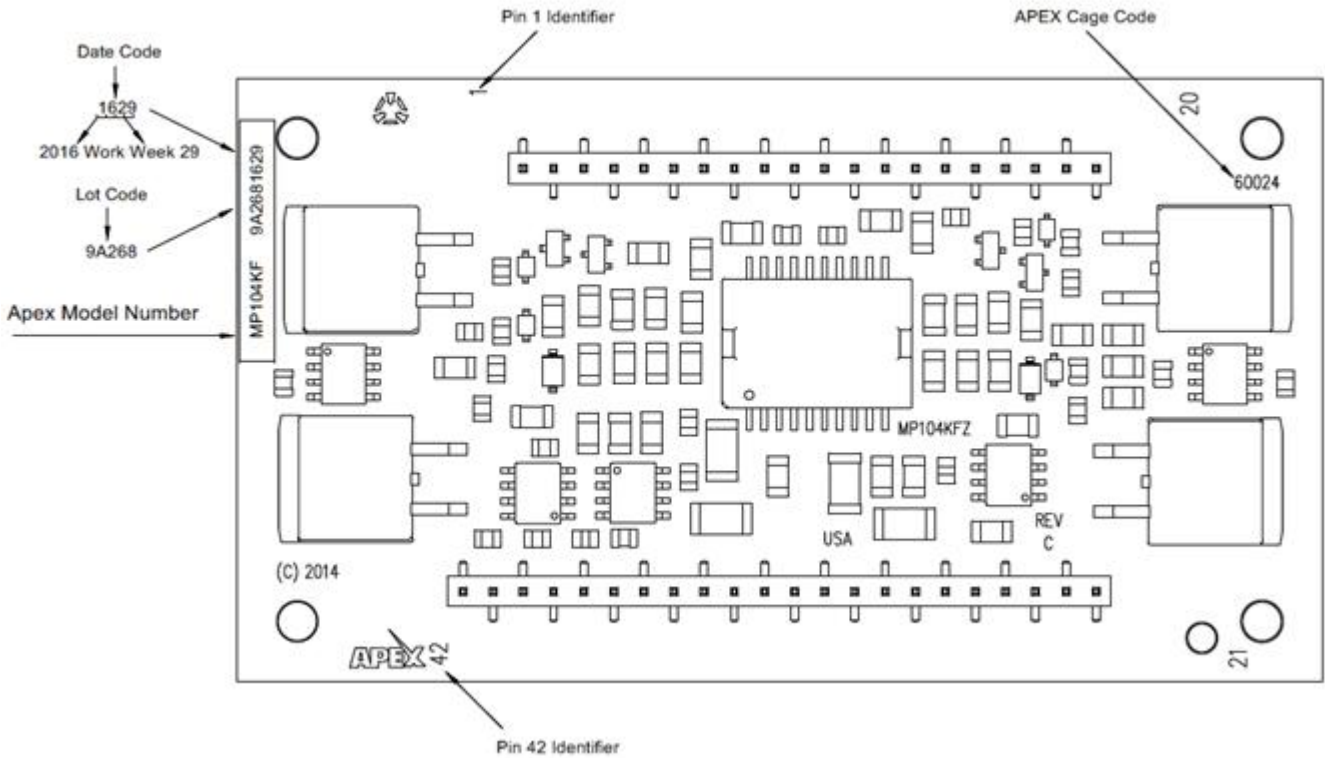
Date Code, Country of Origin




	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
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KF -42-Pin Modular DIP, 1.4 Spacing

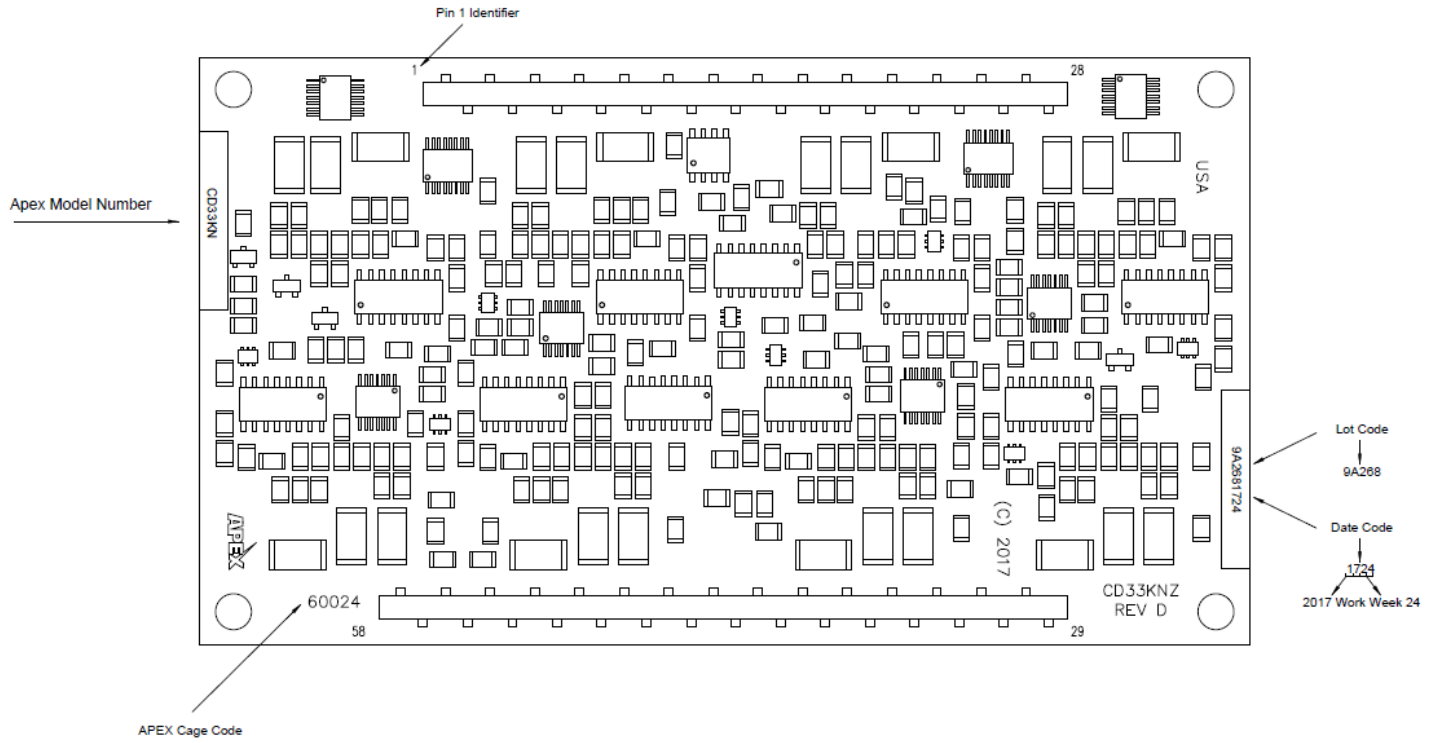
KF PACKAGE




	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 21	OF: 26	DWG NO: OFFL133	REV: M

KN 58-LEAD DOUBLE SIDED MODULAR DIP, 2.3" SPACING

KN PACKAGE



	TITLE: PRODUCT PACKAGE MARKING FORMATS					MODEL:	
	ENG: LM	DWN: mc	DATE: 032806	SH: 22	OF: 26	DWG NO: OFFL133	REV: M


Appendix A – Custom Models & Marking Requirements

Note 1: Standard package marking format, model number as referenced.


Note 2: Military compliance indicator per PROC09/109.

Note 3: Synrad Laser Marked.


Model Number	CUSTOM Marking Requirement	Package Designator	Notes
CD14-13	NA	CR	1
CD17	NA	DP	1
CD20R	NA	KC	1
CD21	NA	EE	1
CD21QE	NA	QE	1
CD22	NA	DP	1
CD22PE	NA	PE	1
CD30	NA	GL	1
CD33	NA	KN	1
CD36	NA	EE	1
CD64GT	NA	GT	1
CM20	Line 1: CM20 Line 2: Poworld (located left) Line 3: Lot/Date Code Line 4: USA BeO Line 5: "delta" 60024	CE	
CM21	Line 1: CM21 Line 2: Poworld (located left) Line 3: Lot/Date Code Line 4: USA BeO Line 5 : "delta" 60024	DQ	
CM22	TBD	CE	
CM23	TBD	CE	
MP103FC/1	NA	FC	1
MP118FD/1	NA	FD	1
MP38CL/0	NA	CL	1
MP38CL/1	NA	CL	1
PA02/4	NA	CE	1
PA02A/26	Line 1: Line 2: Apex Logo Line 3: PA02A/26 Line 4: Lot/Date Code Line 5: "delta" USA BeO Line 6: 60024 Blue X above right side screw hole.	CE	
PA02M-20/883	1st Line: PA02M-20/883 2nd Line: Apex Logo 3rd Line: 5962-9067901HXA 4th Line: Lot Code Compliance Indicator Date Code 5th Line: "delta" USA BeO 6th Line: 60024 Header: Blue P	CE	2
PA02M/883	NA	CE	1, 2
PA03/1	Line 1: PA03/1 Line 2: Apex Logo Line 3:	CU	

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	Line 4: Lot #/Date Code Line 5: "delta" USA BeO Line 6: 60024		
PA03/12	NA	CU	1
PA07M-2/883	1st Line: PA07M-2/883 2nd Line: Apex Logo 3rd Line: 11323-SC80420-1 4th Line: Lot Code C Date Code 5th Line: "delta" USA BeO 6th Line: 60024	CE	2
PA07M-20	Line 1:PA07M-20 Line 2:Apex Logo Line 3:PC74799-1 Line 4:Lot Code Compliance Indicator Date Code Line 5:"delta" USA BeO Line 6:60024	CE	2
PA07M/883	NA	CE	1, 2
PA08-20	1st Line: PA08 2nd Line: Apex Logo 3rd Line: 4th Line: Lot # Date Code 5th Line: "delta" USA BeO 6th Line: 60024 Header: Blue P	CE	
PA08/27	Line 1: PA08/27 Line 2: Apex Logo Line 3: Line 4: Lot/Date Code Line 5: "delta" USA beO Line 6: 60024	CE	
PA08A/27	Line 1: PA08A/27 Line 2: Apex Logo Line 3: Line 4: Lot/Date Code Line 5: "delta" USA beO Line 6: 60024	CE	
PA08M-11	NA	CE	1, 2
PA08M-P/883	1st Line: PA08M/883 2nd Line: Apex Logo 3rd Line: 5962-9072301HXA 4th Line: Lot Code Compliance Indicator Date Code 5th Line: "delta" USA BeO 6th Line: 60024 Header: Blue P	CE	2
PA08M/883	NA	CE	1, 2
PA09-27	Line 1: PA09-27 Line 2: Apex Logo Line 3: Line 4: Lot/Date Code Line 5: "delta" USA BeO Line 6: 60024	CE	
PA09A-20	1st Line: PA09A-27 2nd Line: Apex Logo 3rd Line: Lot # Date Code 4th Line: "delta" USA BeO 5th Line: 60024 Header: Blue P	CE	
PA09A-27	Line 1: PA09A-27 Line 2: Apex Logo Line 3:	CE	

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	Line 4: Lot/Date Code Line 5: "delta" USA BeO Line 6: 60024		
PA09M/883	NA	CE	1, 2
PA10M-12	Line 1: N/A Line 2: Apex Logo Line 3: 17612-001 Line 4: Lot Code Compliance Indicator Date Code Line 5: "delta" USA BeO Line 6: 60024	CE	
PA10M-P/883	1st Line: PA10M/883 2nd Line: Apex Logo 3rd Line: 5962-9082801HXA 4th Line: Lot Code Compliance Indicator Date Code 5th Line: "delta" USA BeO 6th Line: 60024 Header: Blue P	CE	2
PA10M/883	NA	CE	1, 2
PA12-S	NA	CE	1
PA12A-S	NA	CE	1
PA12M-20/883	1st Line: PA12M/883 2nd Line: Apex Logo 3rd Line: 5962-9065901HXA 4th Line: Lot Code Compliance Indicator Date Code 5th Line: "delta" USA BeO 6th Line: 60024 Header: Blue P	CE	2
PA12M-63/883	1st Line: PA12M-63/883 2nd Line: Apex Logo 3rd Line: 5962-9065901HXA 4th Line: Lot Code Compliance Indicator Date Code 5th Line: "delta" USA BeO 6th Line: 60024 Header: N/A	CE	
PA12M/883	NA	CE	1, 2
PA13-1	NA	DP	1
PA51A/S	Line 1:PA51A/S Line 2:Apex Logo Line 3: Line 4:Lot/Date Code Line 5:"delta" USA BeO Line 6:60024	CE	
PA51M-1/883	Line 1:PA51M-1/883 Line 2:Apex Logo Line 3:5962-8762001YA Line 4:Lot Code Compliance Indicator Date Code Line 5:"delta" USA BeO Line 6:60024	CE	2
PA51M-P/883	Line 1:PA51M/883 Line 2:Apex Logo Line 3:5962-8762002YA Line 4:Lot Code Compliance Indicator Date Code Line 5:"delta" USA BeO Line 6:60024 Header: Blue P	CE	2
PA51M/883	NA	CE	1, 2
PA61M/883	NA	CE	1, 2
PA73M-P/883	1st Line: PA73M/883	CE	2

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	2nd Line: Apex Logo 3rd Line: 4th Line: Lot Code Compliance Indicator Date Code 5th Line: "delta" USA BeO 6th Line: 60024 Header: Blue P		
PA73M/883	NA	CE	1, 2
PA74A-P	1st Line: PA74A-P 2nd Line: Apex Logo 3rd Line: 4th Line: Lot # Date Code 5th Line: "delta" USA BeO 6th Line: 60024 Header: Blue P	CE	
PA74M-P	1st Line: PA74M-P 2nd Line: Apex Logo 3rd Line: 4th Line: Lot # Date Code 5th Line: "delta" USA BeO 6th Line: 60024 Header: Blue P	CE	
PA76-P	1st Line: PA76-P 2nd Line: Apex Logo 3rd Line: 4th Line: Lot # Date Code 5th Line: "delta" USA BeO 6th Line: 60024 Header: Blue P	CE	
PA76A/S	Line 1:PA76A/S Line 2:Apex Logo Line 3: Line 4:Lot/Date Code Line 5:"delta" USA BeO Line 6:60024	CE	
PA81J-B	1st Line: PA81J 2nd Line: Apex Logo 3rd Line: 4th Line: Date Lot Code-B (Example: 8AXXX0104-B "B" to be marked on lot code only) 5th Line: "delta" USA BeO 6th Line: 60024	CE	
PA83M/883	NA	CE	1, 2
PA84M/883	NA	CE	1, 2
PA85-21	1st Line: PA85-21 2nd Line: Apex Logo 3rd Line: 4th Line: Lot Date Code 5th Line: "delta" USA BeO	CE	
PA85A-21	1st Line: PA85A-21 2nd Line: Apex Logo 3rd Line: 4th Line: Lot Date Code 5th Line: "delta" USA BeO		
PA89-11	1st Line: PA89-11 2nd Line: Apex Logo 3rd Line: 4th Line: Lot Date Code 5th Line: "delta" USA BeO 6th Line: 60024	DC	
PA89-21	1st Line: PA89-21	DC	

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	2nd Line: Apex Logo 3rd Line: 4th Line: Lot Date Code 5th Line: "delta" USA BeO 6th Line: 60024		
PA89A-21	1st Line: PA89A-21 2nd Line: Apex Logo 3rd Line: 4th Line: Lot Date Code 5th Line: "delta" USA BeO 6th Line: 60024	DC	
PA93/11	NA	DP	1
PA98A/11	Line 1: PA98A/11 Line 2: APEX Logo Lot Code Date Code Line 3: USA BeO Line 4: "Delta" 60024	DP	
PB58-S	NA	CE	1
PB63DP-1	NA	DP	1
SA01-4	Line 1: SA01-4 Line 2: Apex Logo Line 3: Lot/Date code Line 4: USA BeO Line 5: 60024 "delta" next to notch	DE	
SA01-5	Line 1: Line 2: Apex Logo Line 3: SA01-5 Line 4: Lot # Date Code Line 5: "delta" USA BeO Line 6: 60024	DE	
SA01-6	Line 1: SA01-6 Line 2: Apex Logo Line 3: Line 4: Lot, Date Code Line 5: "delta" USA BeO Line 6: 60024	DE	
SA01-7	1st Line: SA01-7 2nd Line: Apex Logo 3rd Line: 4th Line: Lot, Date Code 5th Line: "delta" USA BeO 6th Line: 60024	DE	
SA03-11	Line 1: SA03/10 Line 2: Apex Logo Line 3: Line 4: Lot#DateCode Line 5: "delta"USABeO Line 6: 60024 Header: Blue P	CR	
SA03-12	1st Line: SA03-12 2nd Line: Apex Logo 3rd Line: 4th Line: Lot Date Code 5th Line: "delta" USA BeO 6th Line: 60024	CR	
SA03/33	Line 1: SA03/33 Line 2: Apex Logo Line 3: Line 4: Lot #/Date Code Line 5: "delta" USA BeO Line 6: 60024	CR	

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SA12-13	NA	CR	1
SA160/31	Line 1:SA160/31 Line 2:Blank Line 3:Lot/Date Code Line 4:USA BEO Line 5:60024	FP	
SA60/31	Line 1:SA60/31 Line 2:Blank Line 3:Lot/Date Code Line 4:USA BEO Line 5:60024	FP	
VRE102CA-3	NA	HC	1
VRE210M-83	Line 1:Apex Logo Line 2:VRE210M-83 Line 3:Lot/Date Code Line 4: 60024 Line 5: Delta pin 1 ID, USA	HD	
VRE3025-8JS	NA	GF	1
VRE303AS-3	Line 1:Apex Logo, USA Line 2:VRE303A-3 Line 3:Lot/Date Code	GD	3
VRE304-7	Line 1:Apex Logo, USA Line 2:VRE304-7 Line 3:Dot pin 1, Lot/Date Code	GD	3
VRE304AD-6	NA	GD	1, 3
VRE306AS-3	Line 1:Apex Logo, USA Line 2:VRE306A-3 Line 3:Lot/Date Code	GD	3
VRE410-8JS	NA	GE	1, 3
VRE410-8LS	NA	GE	1, 3

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