



Manufacturer Device Identification	Part Number	
	Prefix	Suffix

INTERSIL (formerly Harris Semiconductor)	H Harris	Temperature Range	Prefix	Device	Suffix
	Family	C Commercial (0°C to +70°C)	H	A	4341 B C B 96
	A Analog	I Industrial (–40°C to +85°C)	Family		
	C Communications	M Military (–55°C to +125°C)	Part Number		
	FA Ultra-High Frequency Analog	Package Designator	Temperature		
	I Data Acquisition		Package Designator		
	IN Interface				
	V Analog High Voltage				
 (Current)		A Shrink Small Outline Plastic (SSOP)			
		B Small Outline Plastic (SOIC)			
		C Thin Small Outline Plastic (TSOP)			
		D Ceramic Dual-In-Line Metal Seal (SBDIP)			
		J Ceramic Dual-In-Line Frit-Seal (CERDIP)			
		L Ceramic Leadless Chip Carrier (CLCC)			
		M Plastic Leaded Chip Carrier (PLCC)			
	N or Q	N Metric Plastic Quad Flatpack (MQFP)			
		P Dual-In-Line Plastic (PDIP)			
		S Single-In-Line Plastic (SIP)			
 (Discontinued)		T Can			
		Y Dice			
		W Wafer			
		H Metal Can TO-52			
		M SOIC			
		E Plastic DIP			
		N Plastic DIP			
		S Metal Can			
		F Ceramic DIP			
		Q Plastic Leaded Chip Carrier			
		H SOT-23			
		Suffix			
		/863 Fully Compliant to MIL-STD-883 Class B/QML			
		96 Tape and Reel			
		-T Tape and Reel			
		1 Tape and Reel			

Family	Temperature Range	Prefix	Device	Suffix
ICL	C Commercial (0°C to +70°C)	ICL	8069D	C B A T
ICM	I Industrial (–25°C to +85°C or –40°C to +85°C) (Specified on data sheet)	Device		
	M Military (–55°C to +125°C)	Family		
	Package	Basic		
		Device Type		
		Temperature Range		
		Package		
		Pin Count Designator		
	B Small Outline Plastic (SOIC)			
	D Ceramic Dual-In-Line Metal-Seal (SBDIP)			
	F Ceramic Flatpack			
	I 16 Pin (0.6 x 0.7 Pin Spacing) Hermetic Hybrid DIP			
	J Ceramic Dual-In-Line Frit-Seal (CERDIP)			
	L Ceramic Leadless Chip Carriers (CLCC)			
	M Metric Plastic Quad Flatpack (MQFP)			
	P Plastic Dual-In-Line			
	S TO-52 Can			
	T TO-5 (Also TO-78, TO-99, TO-100)			
	U TO-72 (Also TO-18, TO-71)			
	Z TO-92			
	/W Wafer			
	/D Chip			
	Suffix			
	/863B Fully Compliant to MIL-STD-883 Class B/QML			
	T Tape and Reel			

Manufacturer Device Identification	Part Number				
	Prefix	Suffix	Prefix	Device	Suffix
INTERSIL (continued)	Data Converters	Temperature Range			
	Family	1 –55°C to +200°C	H	1	3
	A Analog	2 –55°C to +125°C		7	15
	C Communications	4 –25°C to +85°C	Family		
	D Digital	5 0°C to +75°C	Package		
	I Interface	6 100% 25°C Probe (Dice Only)	Temperature		
	M Memory	7 0°C to +75°C with 96 hour burn-in			
	PL Programmable Logic	8 Dash 8 Program; hi-rel processing			
	S Military/Aerospace	9 –40°C to +85°C			
		9+ –40°C to +85°C with burn-in			
	Package:				
	1 Ceramic DIP				
	1B Brazed Seal				
	2 TO-5				
	3 Epoxy DIP				
	4 Leadless Carriers				
	4P Plastic Leaded Chip Carrier				
	5 Ceramic Substrate				
	7 Mini DIP				
	9 Flat Pack				
	9P Small Outline				
	0 Chip Form				
	Data Converters	Package	Prefix	Device	Suffix
	Family	D Ceramic DIP	CA	3306	A E
	CA Linear ICs	E Plastic DIP	Device Type		
		F Cerdip	Electrical Option		
		M Small-Outline Plastic Package	Package		
		N PLCC			
		Q Plastic-Chip-Carrier-Package			
		S DIL TO-5			
		T Con			
		Z SIP			
Family	Temperature Range	CD (AC, ACT, HC, HCT) Types	Prefix	Device	Suffix
CD (AC, ACT, HC, HCT) Types	54/74 Refer to Individual Data Sheets for Temperature Range		CD	XX	XXX XXXXX X XX
Logic Level		Package Designator	Temperature Range		
AC Advanced CMOS Logic CMOS Input Levels		E Dual-In-Line Plastic (PDIP)	Logic Level		
ACT Advanced CMOS Logic TTL Input Levels		EN Narrow Dual-In-Line Plastic (PDIP)	Type Designator		
HC High Speed CMOS Logic CMOS Input Levels		F Ceramic Dual-In-Line Frit-Seal (CERDIP)	Package Designator		
HCT High Speed CMOS Logic TTL Input Levels		H Chip	Hi-Reliability Screening		
HCU High Speed CMOS Logic CMOS Input Levels, Unbuffered		M Small Outline Plastic (SOIC)			
		SM Shrink Small Outline Plastic (SSOP)			
		W Wafer			
	High Reliability Screening				
	3A Fully Compliant with MIL-STD-883				
	X Fully Compliant with MIL-STD-883				
	96 Tape and Reel				
Family	Temperature Range	CD (FCT, LPT) Types	Prefix	Device	Suffix
CD (FC, LPT) Types	29/54/74 Refer to Individual Data Sheets for Temperature Range		CD	XX	XXX XXXXX X X X XX
Logic Level		Output Voltage	Temperature Range		
FCT Bus Interface 5.0V and 3.3V Family		T TTL Output Levels	Logic Level		
LPT Low Power Technology 3.3V Family		Blank Non-TTL Output Levels	Type Designator		
Type Designation		Package Designator	Speed Grade		
Up to 6 units		E Dual-In-Line Plastic (PDIP)	Output Voltage		
16XXX 16-Bit		EN Narrow Dual-In-Line Plastic (PDIP)	Package Designator		
162XXX 16-Bit with Balanced Output Drivers		H Chip	Pack Designator		
163XXX 16-Bit 3.3V FCT		M 300 Mil, Small Outline Plastic (SOIC)			
2XXX Series 25Ω Output Resistor		NM 150 Mil, Small Outline Plastic (SOIC)			
		MT Thin Shrink Small Outline Plastic (TSSOP)			
		QM Shrink Small Outline Plastic (SSOP/QSOP)			
		SM Shrink Small Outline Plastic (SSOP)			
Speed Grade		Package Designator			
Blank Lowest Speed		Blank Tube			
A		96 Tape and Reel			
B					
C					
D					
E Highest Speed					

Manufacturer Device Identification		Part Number	
		Prefix	Suffix

INTERSIL
(continued)

Family

IP Intelligent Power

V High Voltage

Topology

0 Low Side Switch

1 High Side Switch

2 Half Bridge

3 AC/DC Converters

4 Full Bridge

5 Regulator/Power Supply

7 Multiplex Communication Circuit

9 Special Function

Sequential Number

Based on Order of Development 0-9

Package Designator

B Small Outline Plastic (SOIC)

D Chip

J Ceramic Dual-In-Line Frit-Seal (CERDIP)

M Plastic Leaded Chip Carrier (PLCC)

P Dual-In-Line Plastic (PDIP)

S Single-In-Line Plastic (SIP)

W Wafer

Y Die

Temperature

A Automotive (-40°C to 150°C)

C Commercial (0°C to 70°C)

I Industrial (-40°C to 85°C)

M Military (-55°C to 125°C)

D EDP (0°C to 85°C)

Voltage

Multiply by 10 for Capability (i.e. 50 = 500V)

If Negative (-) is Used for First Digit, Do Not Multitply by 10 (i.e. -5 = 5V)

Family CDP68H05C, HCL, HSC Types		Sequential Number Based on Order of Development 0-9		CDO68HC05C, HCL, HSC Types	
Part Number		Package Designator		Prefix Device Suffix	
HC Standard		D Ceramic Dual-In-Line Metal-Seal (SBDIP)		CD68HC05C C8E E 20	
HCL Low Power		E Dual-In-Line Plastic (PDIP)		Part Number	
HSC High Speed		N Plastic Leaded Chip Carrier (PLCC)		Family Series	
Family Series		Q Metric Plastic Quad Flatpack (MQFP)		Package Designator	
C4B, C8B, C16, J3, J4A, A2, P1, R1, R2, S1, T1, T3, W1		SE Shrink Dual-In-Line Plastic (SDIP)		Pin Count	
		H Chip			
		M SOIC			

Family 80CXXX Microprocessors		Speed μProcessors		Prefix Device Suffix	
C 0°C to +70°C		Blank 5MHz		M D 80C86 -2 /B /883	
I -40°C to +85°C		2 8MHz		Temperature Range	
M -55°C to +125°C		-10 10MHz		Package	
X +25°C		-12 12MHz		Speed	
Package		-15 15MHz		-55°C to 125° with Burn-in	
P Plastic DIP		-25 25MHz		883 REVC Compliant	
D Ceramic DIP		Peripherals			
R Leadless Chip Carrier		5 5MHz			
S Plastic Leaded Chip Carrier		Blank 8MHz			

Memories		Performance Grade		Prefix Device Suffix	
Family		B High Performance		H M 1 65162 B -9	
M Memory		C Relaxed Specification		Family	
Package		X Very High Speed		Package	
1 Ceramic DIP		Temperature Range		Performance Grade	
1B Brazed Seal		2 -55°C to +125°C		Temperature Range	
3 Plastic DIP		5 0°C to +70°C			
4 Leadless Carriers		6 100% 25° C Probe (Dice Only)			
5 Ceramic Substrate		8 -55°C to +125°C With Burn-In			
6 Slimline		9 -40°C to +85°C With Burn-In			
0 Chip Form		/883 Fully compliant to Mil-Std-883C			
2 Metal Can					
7 Ceramic DIP					
9P PDSO					
4P PLCC					

Peripherals Micro/Memory - 1800 Series		Package		Prefix Device Suffix	
Family		E Plastic DIP		CDP 1802 A C E X	
CDP Circuit Digital Processor		D Ceramic DIP Metal Seal		Performance Mode	
CMMXXX		N,Q PLCC		Voltage	
MW551XX RAM		Voltage		Package	
		- 10 Volts		Burn-in	
		C 5 Volts			

Manufacturer Device Identification	Part Number		
	Prefix	Suffix	
INTERSIL (continued)	CDP65C51 Types	Speed Options 1 1MHz Operation 2 2MHz Operation 4 4MHz Operation	CDP65C51 Types
	Family Series A Non-Standard Clear to Send (CTS) Operation Blank Standard Clear to Send (CTS) Operation	Package Designator E Dual-In-Line Plastic (PDIP) M Small Outline Plastic (SOIC) H Chip	Prefix Device Suffix CDP65C51 A E 4 Part Number Family Series Package Designator Speed Options
	CDP6XXX Types Part Number CDP6818 CDP64XX	Screening Option X Enhanced Product Screening (i.e. Burn-In) (Optional for D.E. Package Types) Package Designator D Ceramic Dual-In-Line Metal Seal (SBDIP) E Dual-In-Line Plastic (PDIP) N Plastic Leaded Chip Carrier (PLCC) M Small Outline Plastic (SOIC) H Chip	CDP65C51 Types Prefix Device Suffix CDP6XXX E 4 Part Number Package Designator Speed Options
	DG Types Device Family and Prefix Switches and MUXs Temperature Range A -55°C to 125°C B 25°C to 85°C C 0°C to 70°C D -40°C to 85°C E -40°C to 85°C Extended Process Flow with Burn-in and 100% Temp Testing	High Reliability Designator /883 Fully Compliant to MIL-STD-883 Class B/QML /883B Y Tape and Reel T Tape and Reel 1 Tape and Reel 3 Tape and Reel X Tape and Reel Package Designator Y Small Outline Plastic (SOIC) J Dual-In-Line Plastic (PDIP) K Ceramic Dual-In-Line Frit-Seal (CERDIP) N Plastic DIP D Ceramic DIP WM SOIC CD Ceramic DIP CN Plastic DIP E Plastic DIP J Ceramic Leaded Chip Carrier H DIE M SOIC T Metal Can S Plastic SIP V Thin Quad Flatpack A SSOP IA SSOP IA Thin Quad Flatpack	Prefix Device Suffix DG XXXX X X /883 Part Number Temperature Range Package Designation High Reliability Designator
	Digital Signal Processing Family MU Multiplexer MA Multiplier/Accumulator MP Multimedia Products	Package J PLCC G PGA N Metric Quad Flat Pack Temperature Range C Commercial 0°C to 70°C I Industrial -40°C to 85°C M Military -55°C to 125°C Performance Grade -35 35ns -45 45ns -55 55ns -60 60ns -65 65ns -75 75ns	Prefix Device Suffix H MU 16 JC-35/883 Family Package Temperature Range Performance Grade Hi Rel

Manufacturer Device Identification	Part Number	
	Prefix	Suffix

INTERSIL
(continued)

Family

SP Signal Processing

Device Type

43 Filters

45 Special Function

48 Image Processing

50 Down Conversion and Demodulation

95 Building Blocks

Package

J PLCC

G PGA Ceramic

D DIE

P DIP, Plastic

S SOIC

V MQFP

W Wafer

Temperature

C Commercial 0°C to 70°C

I Industrial -40°C to 85°C

M Military -55°C to 125°C

Performance Grade

-15 15MHz

-20 20MHz

-25 25 or 25.6MHz

-30 30MHz

-33 33MHz

-40 40MHz

Prefix

Device

Suffix

H SP

43 XXX

JC-15/883

Family

Device Type

Package

Temperature Range

Performance Grade

Hi Rel

High Reliability

CA3000 Linear Series

Package

D Dual-In-Line Metal-Seal Ceramic

F Dual-In-Line Frit-Seal Ceramic

T TO-5 Metal Can

S DIL Formed TO-5

J Leadless Chip Carrier

Prefix

Device

Suffix

C A

3130

T /3

Package

Reliability Screening Level

High Reliability (continued)

CDM, CDP, CMM, GP CMOS LSI

Revision

A 1st

B 2nd, etc.

Package

D Dual-In-Line

J Leadless Chip Carrier

K Flatpack

Product Assurance Level

3 Modified Class Q

IRZ Modified Class V Rad-Hard 10⁵

Prefix

Device

Suffix

CDM

6264

A D /3

Revision

Package

Product Assurance Level

CD4000 Types

Supply Voltage

A 12V Max

B 18V Max

UB 18V Max, Unbuffered

High Reliability Screening

3 Non-Compliant with MIL-STD-883 Class B

3A Fully Compliant with MIL-STD-883 Class B

X 160 Hour Burn-in (125°C)

R Radiation Hardened Class S Compliant

MSH MS+10e6 (Si) Radiation Hardened

MSR MS+10e5 (Si) Radiation Hardened Class S Modified

IRZ 10e5 Rads (Si) Radiation Hardened

3Z Class B+10e5 (Si) Radiation Hardened

BH Jan Class B+10e6 (Si) Radiation Hardened

BR Jan Class B+10e5 (Si) Radiation Hardened

SH Jan Class S+10e6 (Si) Radiation Hardened

SR Jan Class S+10e5 (Si) Radiation Hardened

Package Designator

E Dual-In-Line Plastic (PDIP)

F Ceramic Dual-In-Line Frit-Seal (CERDIP)

K Ceramic Flatpack

M Small Outline Plastic (SOIC)

H Chip

W Wafer

Y Small Outline Package

J Dual In-Line (DIP)

D CDIP

H DIE

Prefix

Device

Suffix

CD

4XXXX

XX X X

Type

Designation

Supply Voltage

Package Designator

High-Reliability Screening

Manufacturer Device Identification	Part Number	
	Prefix	Suffix

INTERSIL
(continued)

CD4000 Radiation Hardened Types
Series
B Buffered
UB Unbuffered
Class
MS Class V (Note 1)
NS Class V with Neutron Irradiation (Note 1)

 Note 1: Flight Units Must Be Ordered by SMD#.
 A cross reference table is available on the Harris website at
http://www.semi.harris.com/datasheets/smd/smd_xref.

Package Designator
D Ceramic Dual-In-Line Metal-Seal (SBDIP)
H Die
K Ceramic Flatpack

Hardness Assurance Level
R 10⁵ (100K RADs)

CD4000 Radiation Hardened Types

Prefix	Device	Suffix
CD4000	B	F S R

 Part Number
 Series
 Package Designator
 Class
 High-Reliability Screening

IH Types		IH Types	
Device Family	Suffix	Prefix	Device Suffix

Interface

Temperature Range
C Commercial, 0°C to 70°C
I Industrial, -40°C to 85°C
M Military, -55°C to 125°C

/883B -55°C to 125°C Fully Compliant to MIL-STD-883, Class B/QML
/HR -55°C to 125°C, Non-Compliant
/BI With Burn-In
T Tape and Reel

Pin Count Designator
A 8
D 14
E 16
P 20
W 10 (0.230" pin circle isolated case)

IH 5043 M J E /883B
 Device
 Family
 Basic
 Part Number
 Temperature Range
 Package Designator
 Pin Count Designator
 Suffix