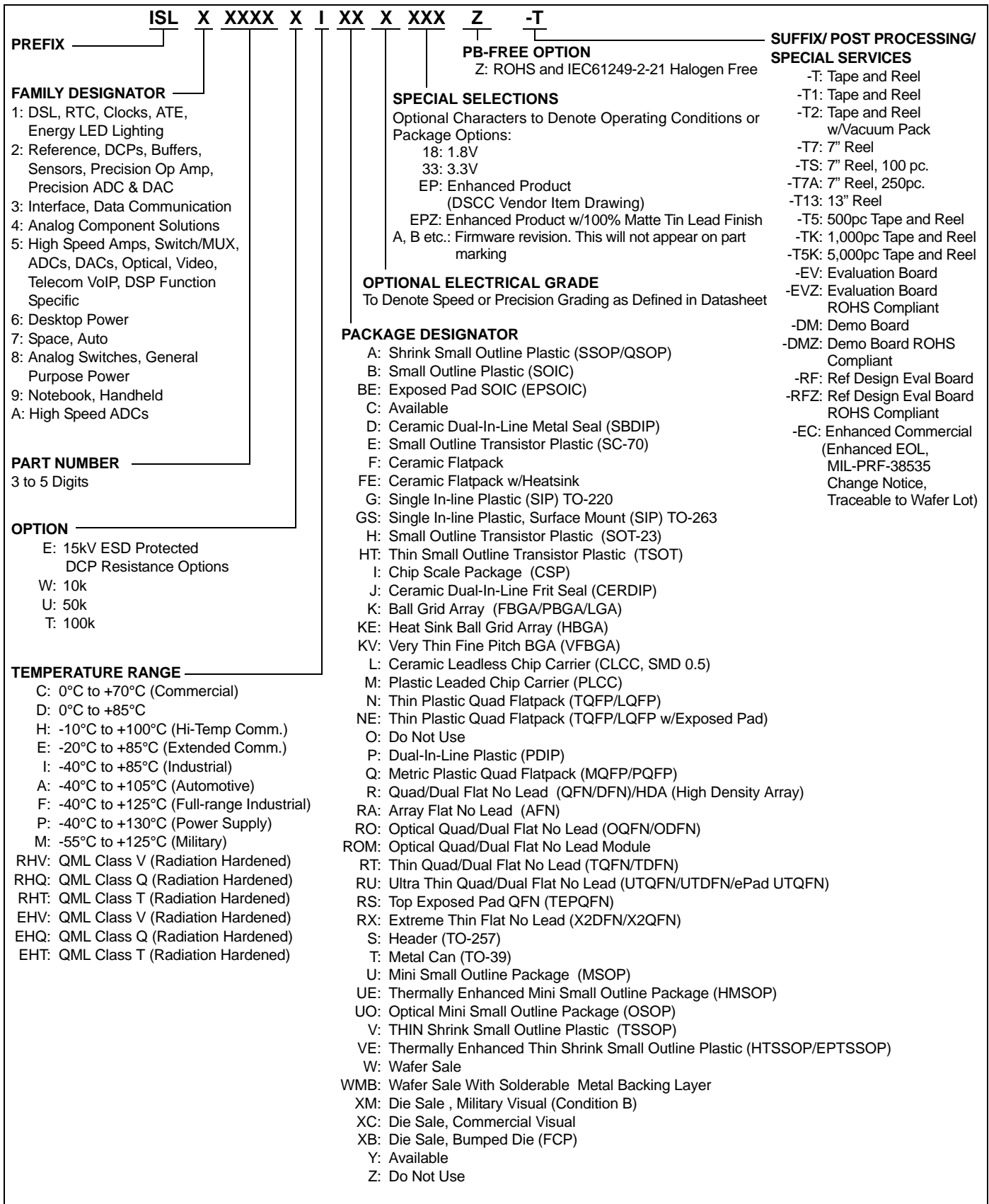


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Nomenclature Guide

Intersil Nomenclatures

ISL Types



Nomenclature Guide

EL Types

EL
PREFIX

1503
PART NUMBER

A
OPTIONAL SUFFIX OR PART VARIATION

I
TEMPERATURE RANGE

R
PACKAGE FAMILY

Z
PB-FREE OPTION
Z: Pb-Free Product

-T
SUFFIX/POST PROCESSING/
SPECIAL SERVICES
-T: Tape and Reel
-T7: 7" Reel
-T7A: 7" Reel (250 pcs)
-T13: 13" Reel

TEMPERATURE RANGE

- C: (Commercial) 0°C to +70°C
- I: (Industrial) -40°C to +85°C
- M: (Military) -55°C to +125°C
- A: (Automotive) -40°C to +105°C
- D: 0°C to +85°C
- E: (Extended Comm) -20°C to +85°C

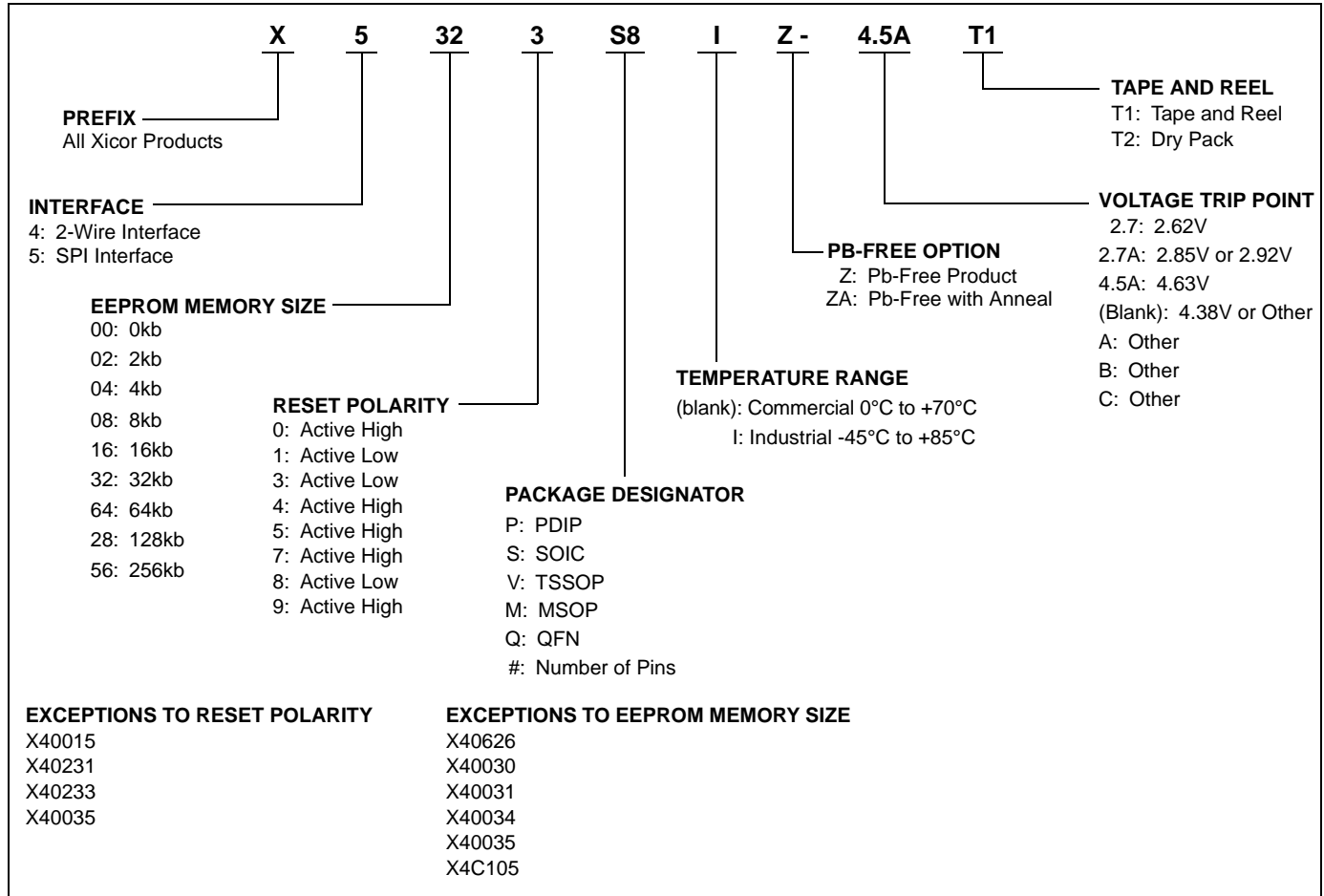
PACKAGE FAMILY

PACKAGE TYPE	PACKAGE DESIGNATOR
Bare Die	D
CerDip	J
QFN/DFN (Saw Singulate)	L
SO (0.300") and HSOP	M
PDIP	N
TSSOP (4.4 mm)	R
HTSSOP (4.4 mm)	RE
SO (0.150")	S
TO-220	T
QSOP	U
SOT-23	W
MSOP	Y
HMSOP	YE
TSOT	WT
SC-70	C

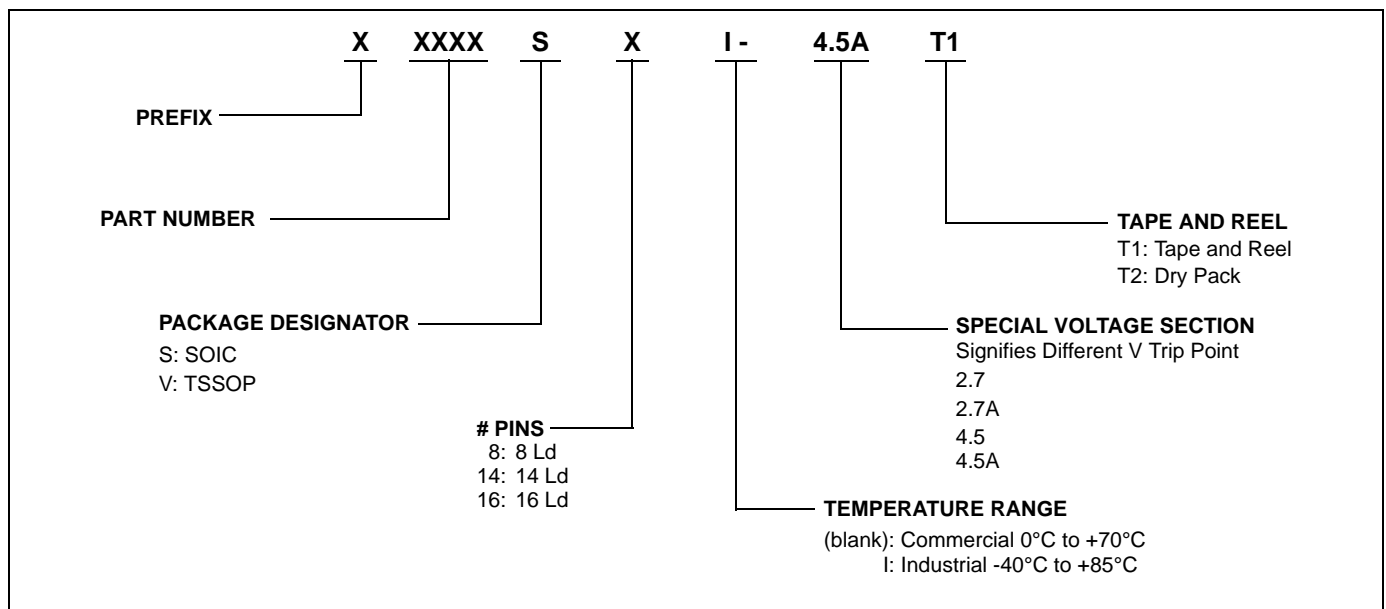
Nomenclature Guide

X Types

System Management Products (SMP)

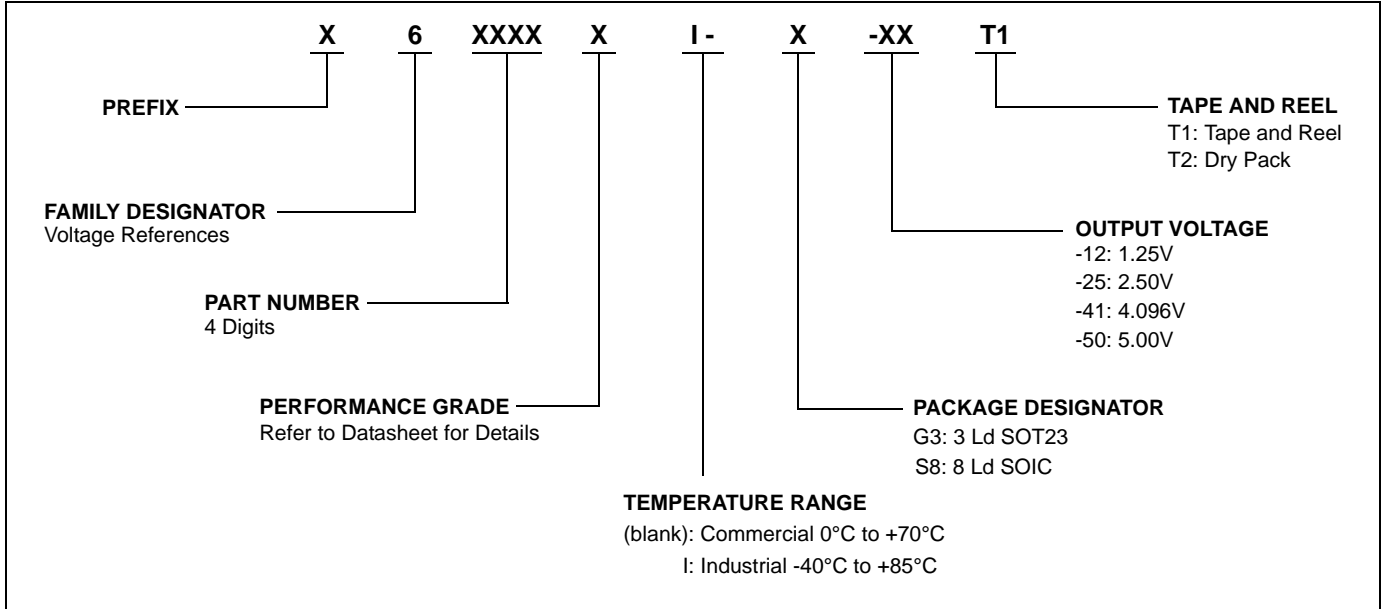


Real Time Clocks (RTC)

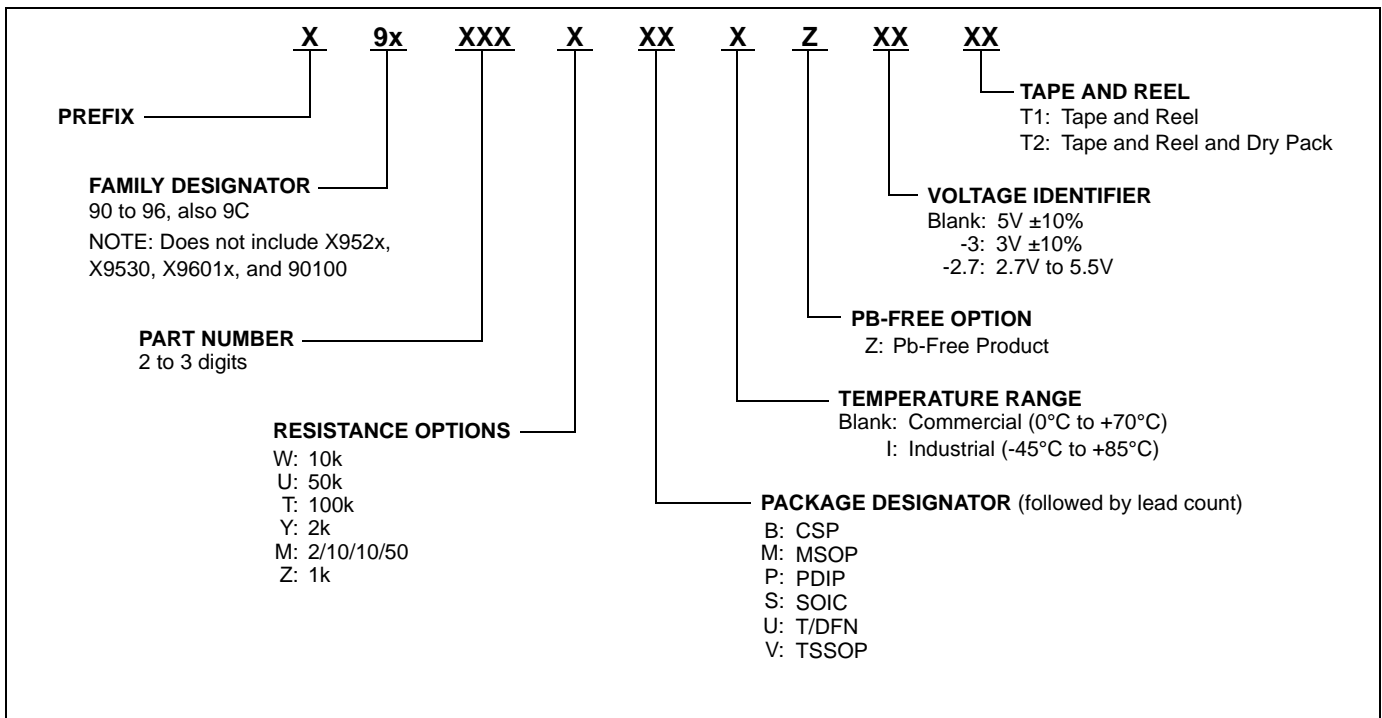


Nomenclature Guide

Voltage References (VREFs)

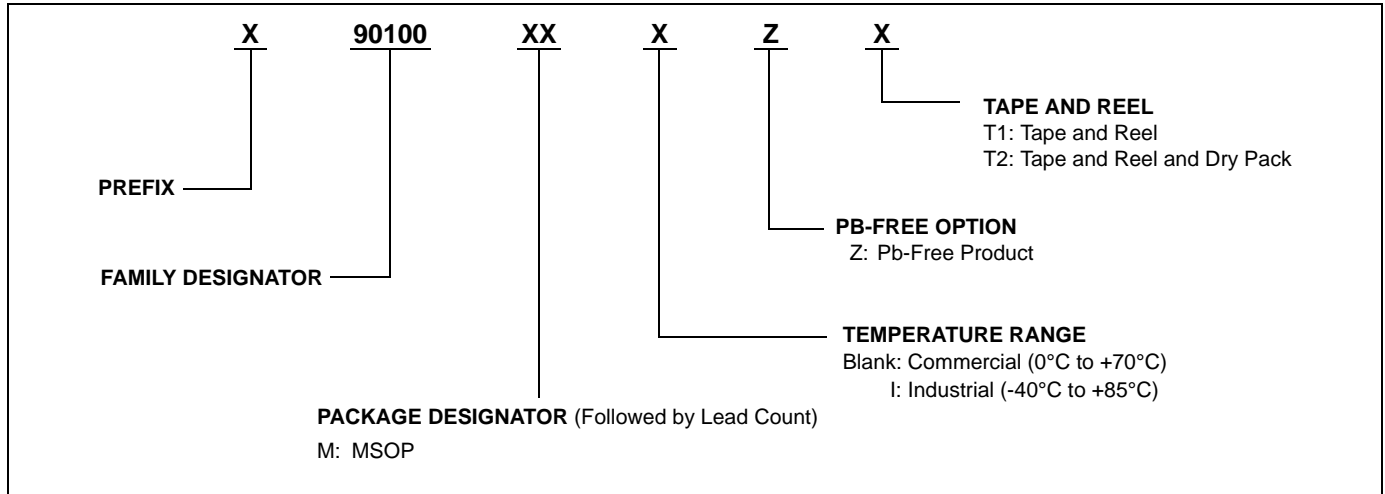


Digitally Controlled Potentiometers (DCPs)

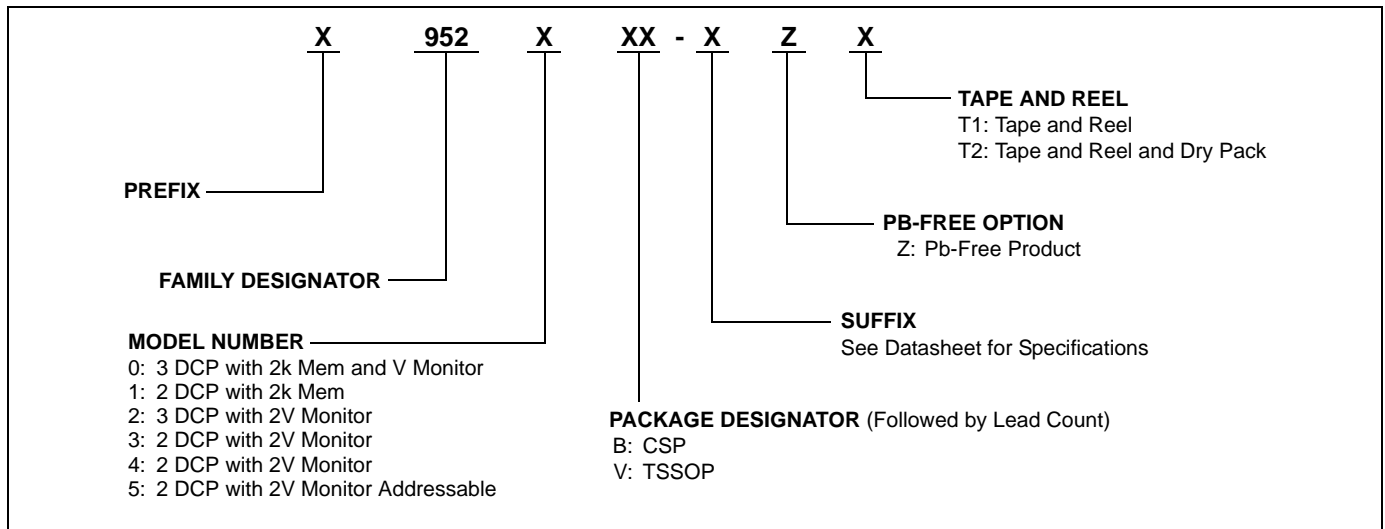


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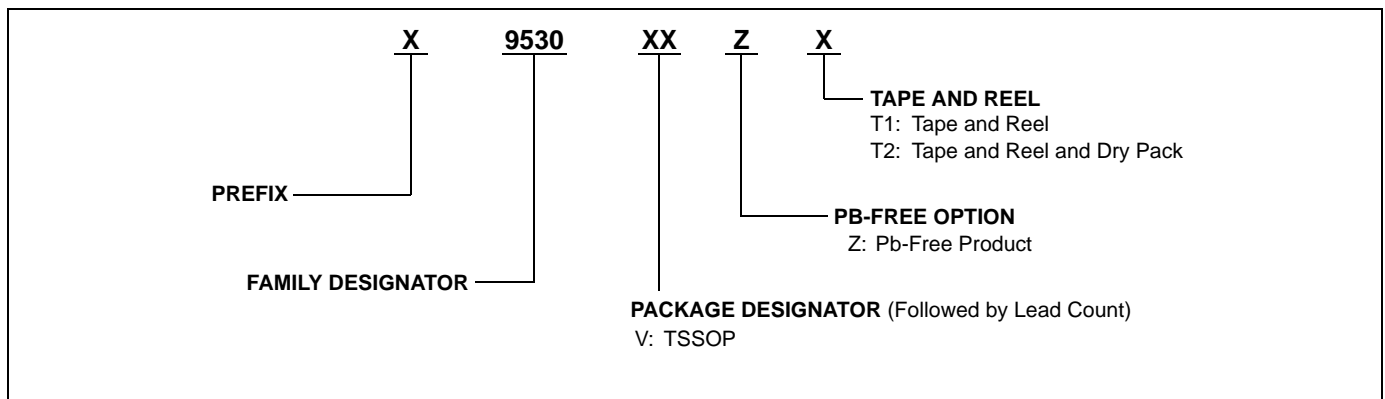
Digitally Controlled Capacitors (DCCs)



Bias and Control for Laser Diode with Integrated DCP

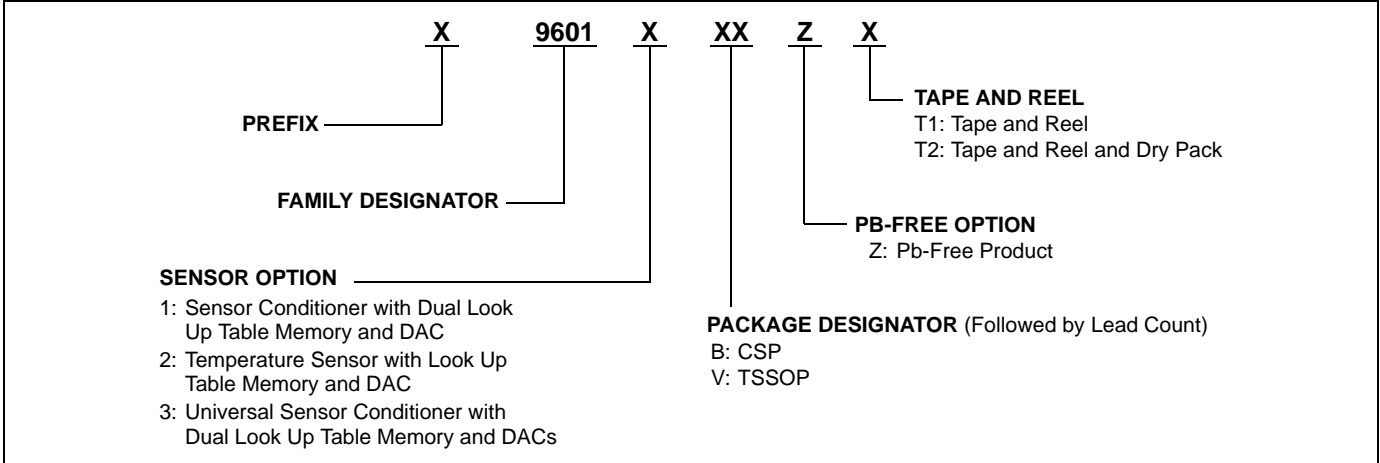


Bias and Control for Laser Diode

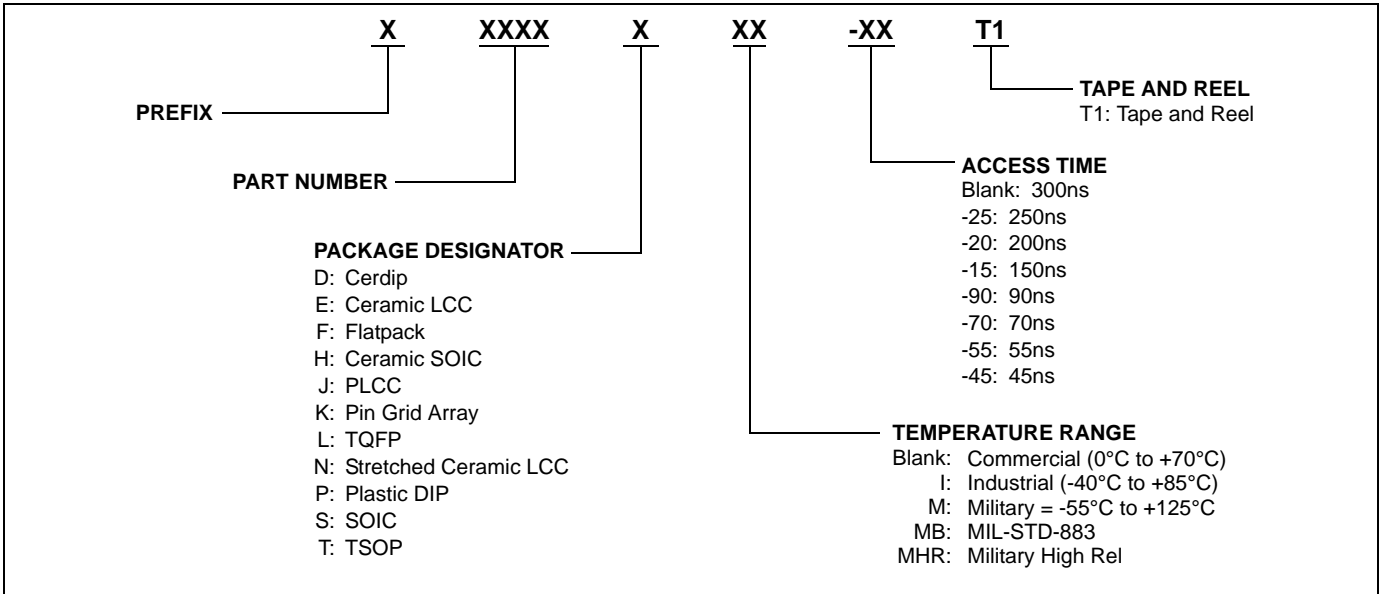


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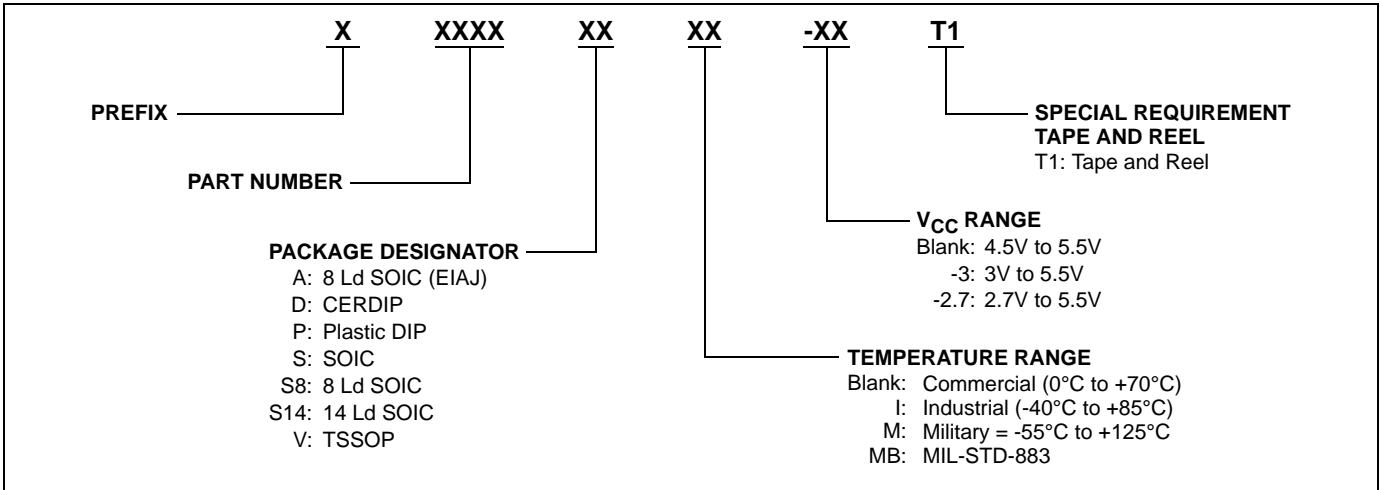
General Purpose Sensor Conditioners with Look-Up Table Memory



Parallel E²PROM

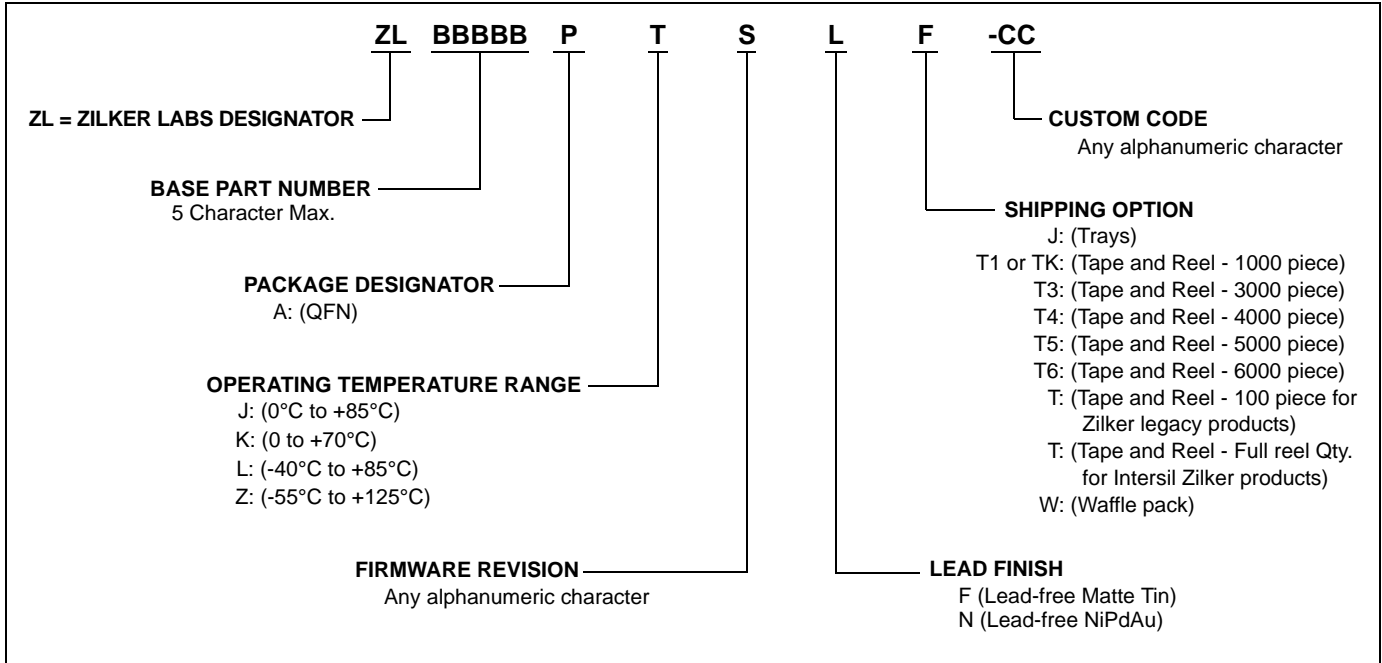


Serial E²PROM

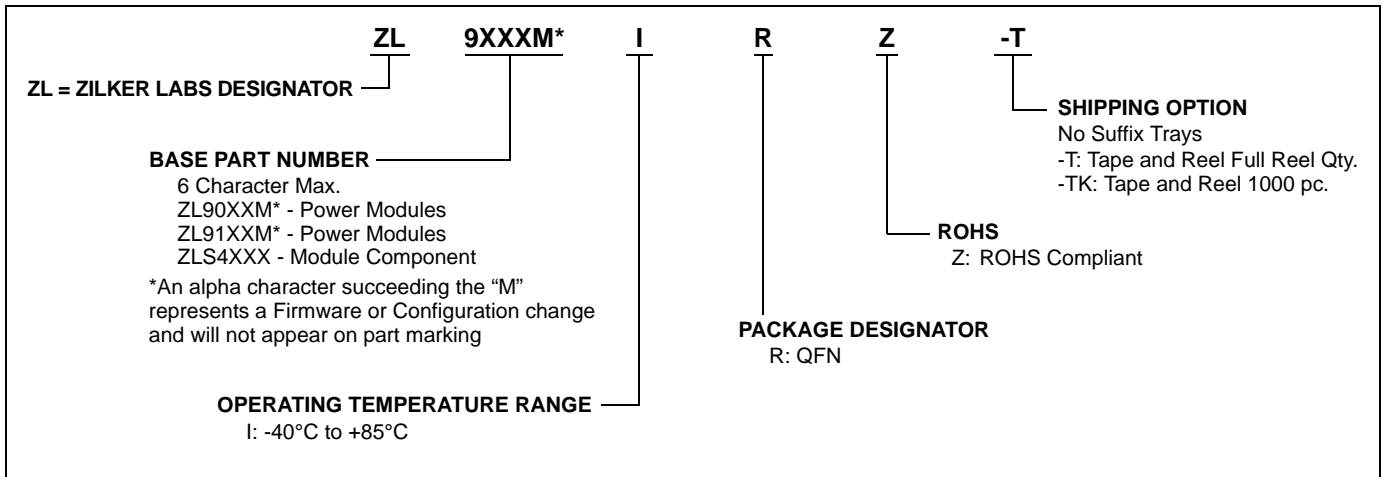


Nomenclature Guide

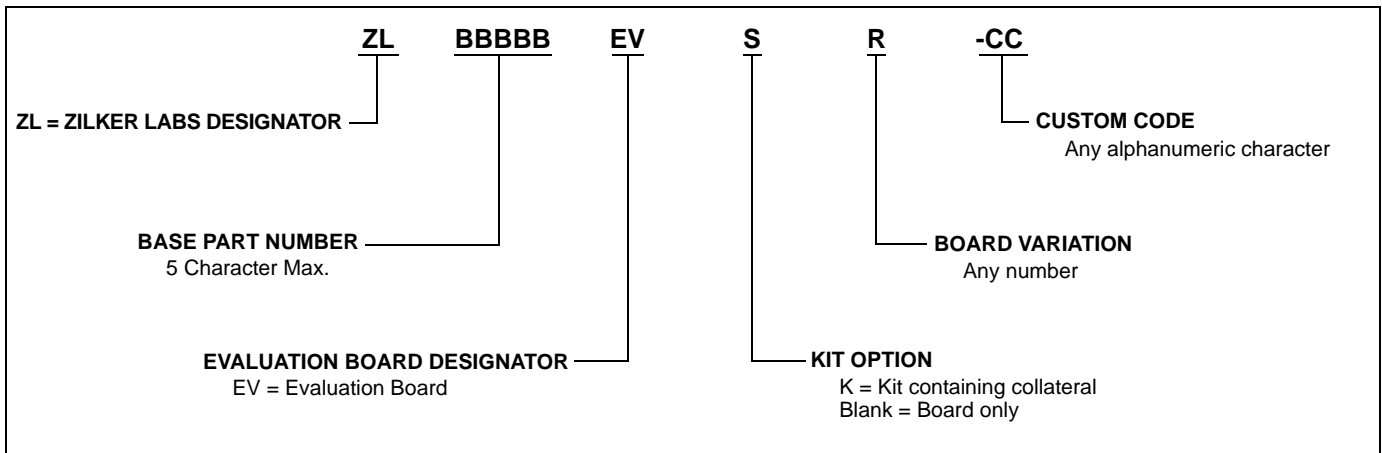
ZL Types



ZL Power Modules

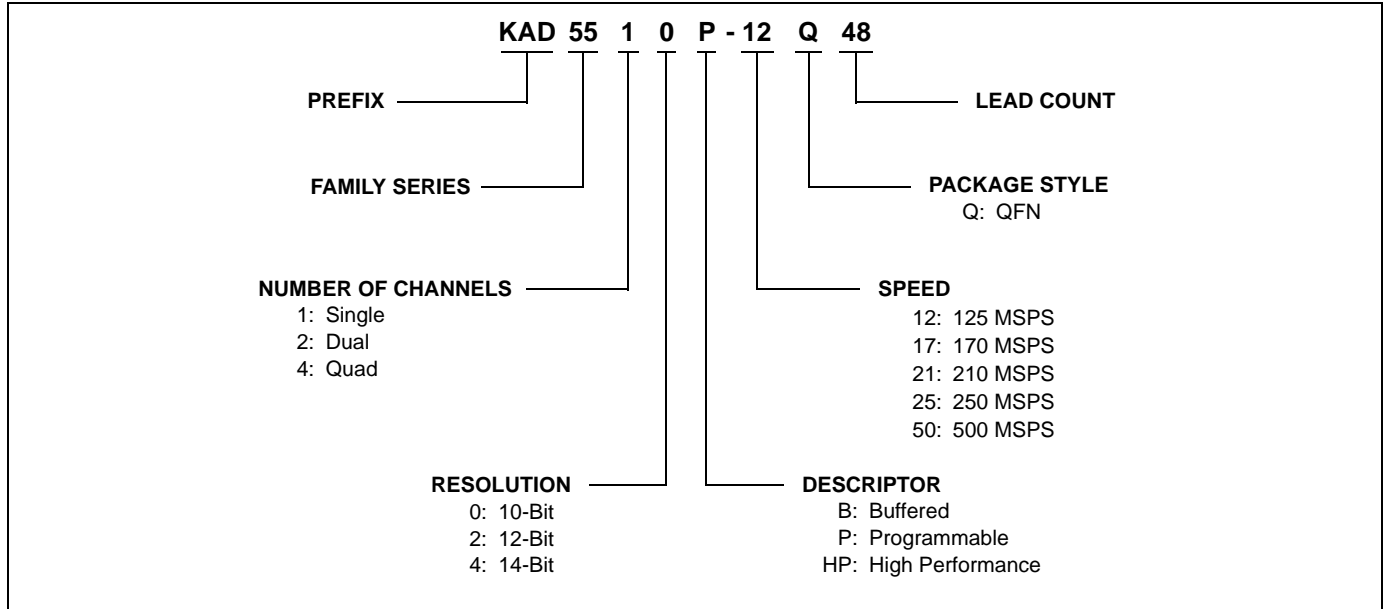


ZL Evaluation Boards



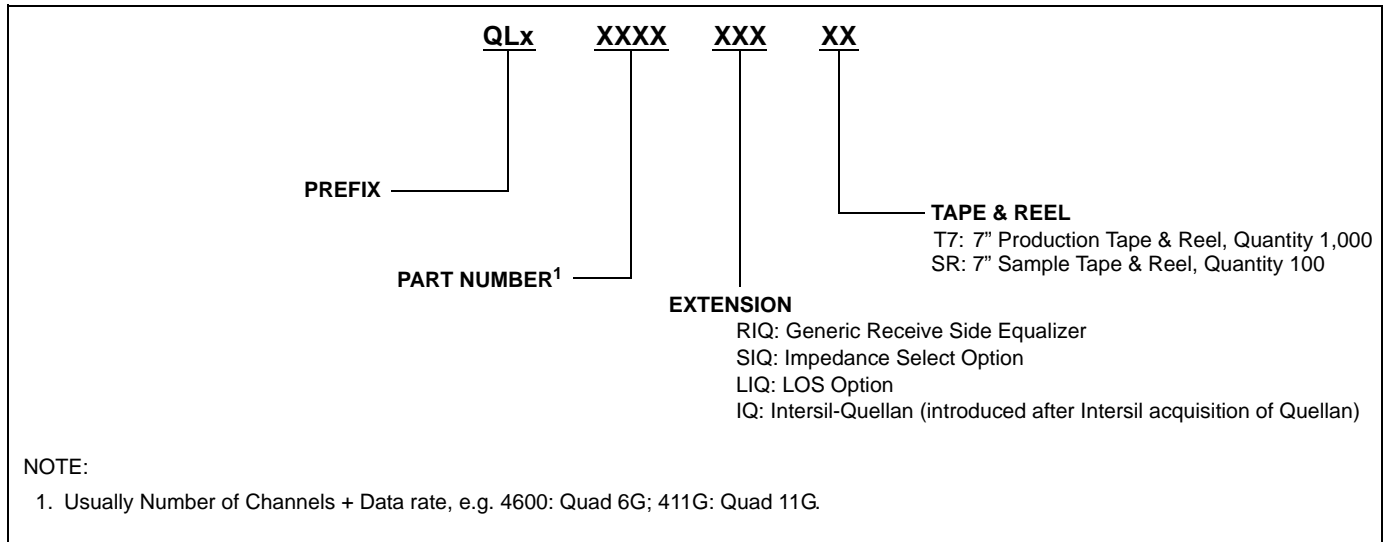
Nomenclature Guide

KAD Types



QLx Types

Wired Signal Integrity Parts



Nomenclature Guide

Active Cables

The diagram shows the nomenclature for Active Cables. It consists of a PREFIX, followed by a PART NUMBER¹, then a series of characters: QLx, XXXXX, XXX X, and YYY. The length/gauge³ is indicated by the YYY characters. The form-factor² is indicated by the XXX X characters.

NOTES:

- Data Rate followed by Special Designator, followed by Customer Designator (if applicable), followed by "C" for cable.
 Special Designators:
 0 for half-active (chip on RX side only)
 1 for generic full-active (chips on both TX and RX ends)
 2 for full-active Ethernet
 Customer Designator:
 0 for general market, other numbers for specific customers, e.g. 600C (6G half-active cable), 4000C (40G half-active cable), 4100C (40G full-active cable)
- For example, connector type or form-factor: SFP for SFP+, QSFP for QSFP, MSAS for Mini-SAS, SDP for mini DisplayPort, SDP for Standard DisplayPort, SMDP for mini-to-standard DisplayPort.
- For example, 1028 = 10m 28 AWG.

QL Evaluation Boards

The diagram shows the nomenclature for QL Evaluation Boards. It consists of a PREFIX, followed by a PART NUMBER¹, then a series of characters: EBL, XXXXX, and -EVALZ.

NOTE:

- Same as the part marking on the respective IC.

QHx Types

Wireless Noise Cancellation Parts

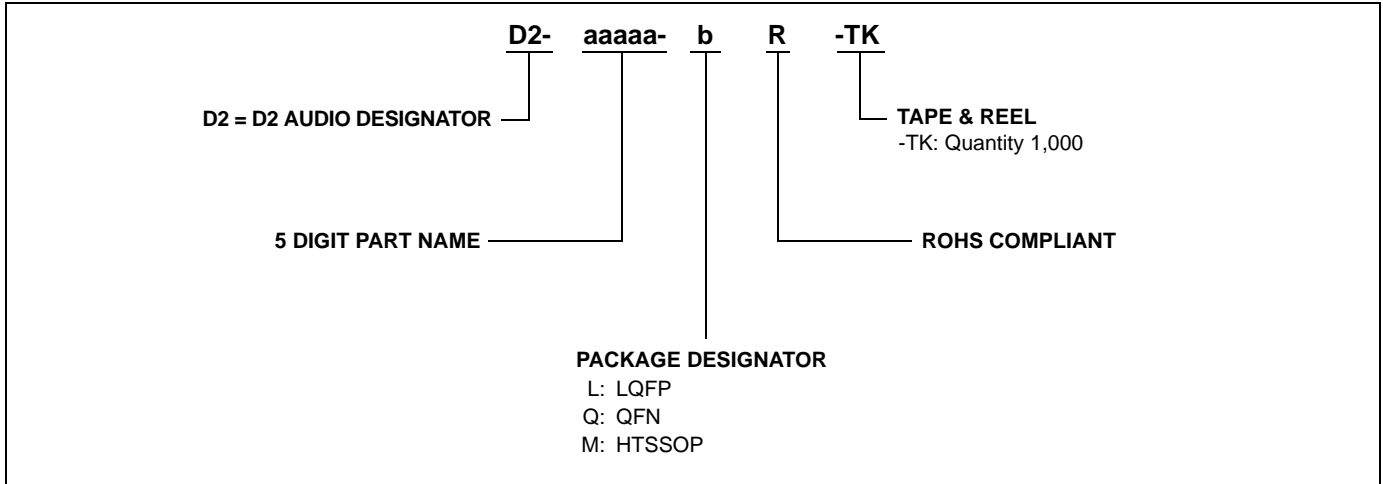
The diagram shows the nomenclature for QHx Types. It consists of a PREFIX, followed by a PART NUMBER, then a series of characters: QHx, XXX, XX, and XX. The tape & reel information is indicated by the XX characters. The extension is indicated by the XXX characters.

TAPE & REEL
 T7: 7" Production Tape & Reel, Quantity 1,000
 SR: 7" Sample Tape & Reel, Quantity 100

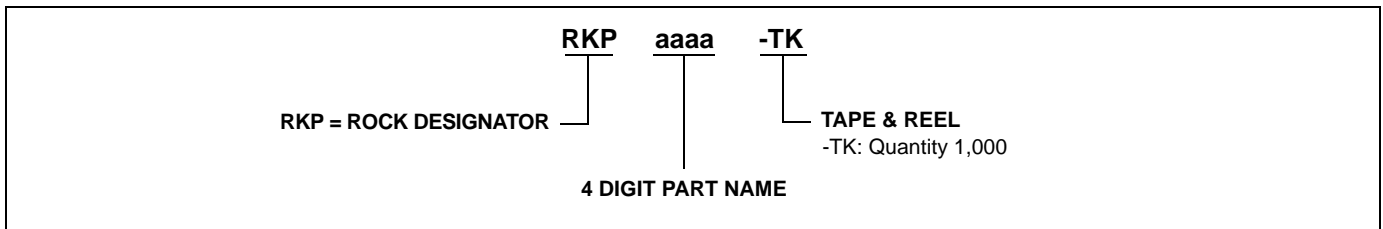
EXTENSION
 IQ: Intersil-Quellan (introduced after Intersil acquisition of Quellan)

Nomenclature Guide

D2 Types



RKP Types



Nomenclature Guide

TW Types

TW **aaaa** **bb** - **c** **d** **e** **f** **g#** - **h** **j** **k** **l**

PREFIX _____

DEVICE NUMBER _____

AT: Auto Wafer _____
EP: Epi Wafer _____

c - PROCESS _____
This character is included in the marking of legacy products only.

PROCESS	CODE
TSMC, 0.35µm, Polycide, SPQM or SPTM Logic	A
TSMC, 0.25µm	B
X-FAB, 0.25µm	C
TSMC, 0.18µm	D
X-FAB, 0.18µm	E
TSMC, 0.18µm, EPI, Ar Anneal, Hi	G
Goyatek/Vanguard, 0.25µm	H
TSMC 0.25µm EPI, Ar Anneal, Hi	J
TSMC 0.18µm Automotive Process	K
TSMC 0.13µm	M
TSMC 90nm	N
Fujitsu 90nm	P
TSMC 0.13µm 12" Wafer	Q
TSMC 65nm	R
TSMC 45nm	S

d - ASSEMBLY VENDOR _____
This character is included in the marking of legacy products only.

ASSEMBLY VENDOR	CODE
ASEK	A
ASECL	B
GAPT	C
i2a/IPAC, Quick Pak	D
SPIL	E
ChipMOS	G
UTAC	J
Fujitsu	K
Amkor Korea	M

e - _____
Q: 12" Wafer

f - PACKAGE TYPE A _____

PACKAGE TYPE	CODE
BGA package	B
LQFP package	L
PQFP package	P
TQFP package	T
QFN package	N
PQFP package with Exposed Heat Spreader	E

I - OPTIONS

- S = SLT
- B = Burn-in
- H = High Temp. Testing
- I = Industrial
- V = High Volt Testing
- T = Tape & Reel Packing

k - PACKAGE VARIANT

PACKAGE VARIANT	CODE
This is only used when one product type is offered in 2 different sizes or lead counts of the same package style. The last FG# created will include the lead count.	128 (lead count)

j - PACKAGE TYPE C

PACKAGE TYPE	CODE
Drop-in heat spreader	D
Exposed heat spreader	E
Regular package without heat spreader	R

h - PACKAGE TYPE B

PACKAGE TYPE	CODE
Green (Halogen Free) and Lead Free package	G (Note)
Normal package	N
Green (Halogen Free) and Lead Free package with Cu Bond Wires	C
Flip Chip	F

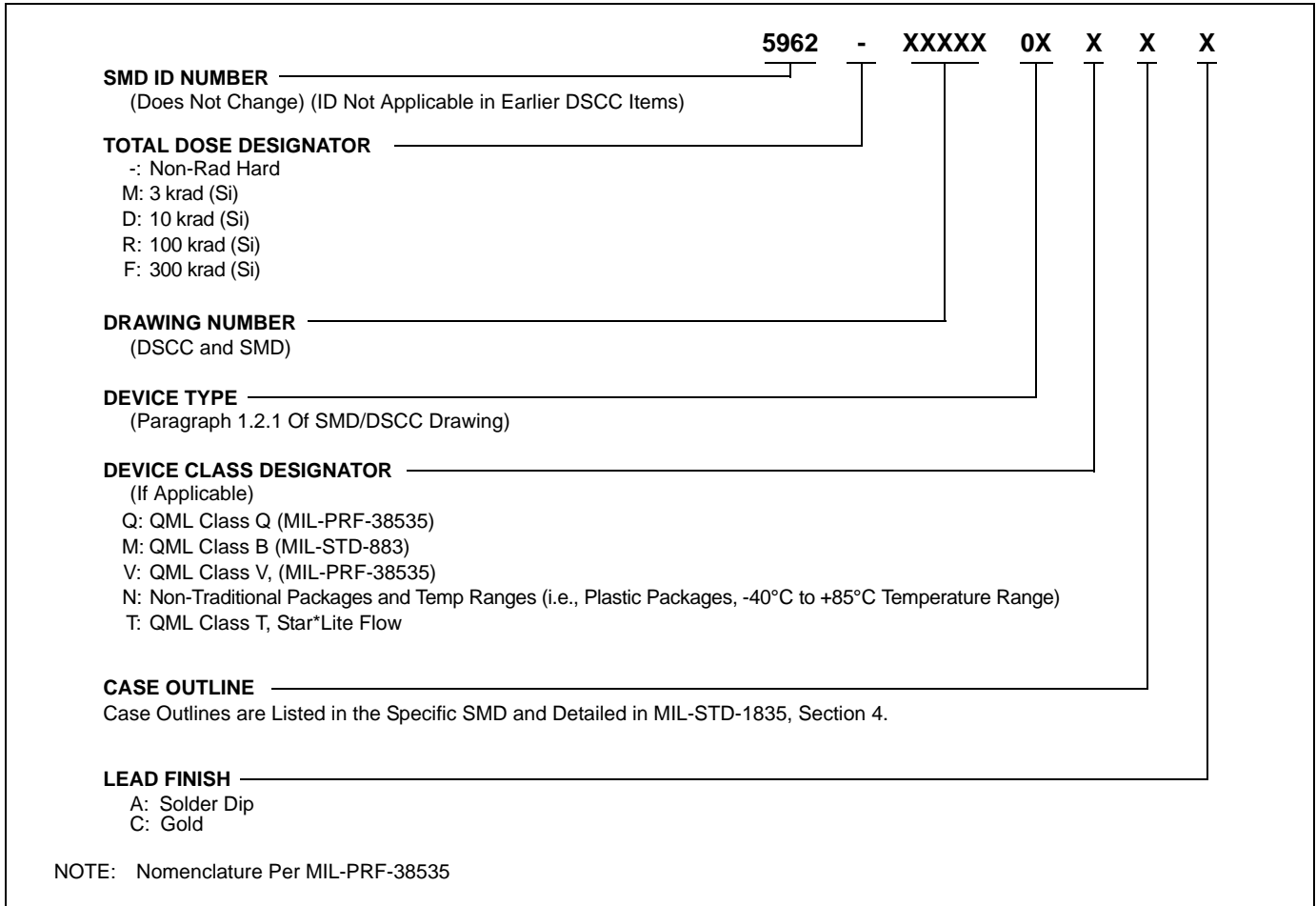
NOTE: The following FG's also use Cu wire:
TW6815-LA1-GR
TW6816-LA1-GR
TW6817-LA1-GR
TW6818-LA1-GR
TW6932-LA1-GR

g# - DIE REVISION
It starts from A1. If full layers are changed, the die revision changes like A1→B1→C1, etc.
If some layers are changed, the die revision changes like A1→A2→A3, etc.

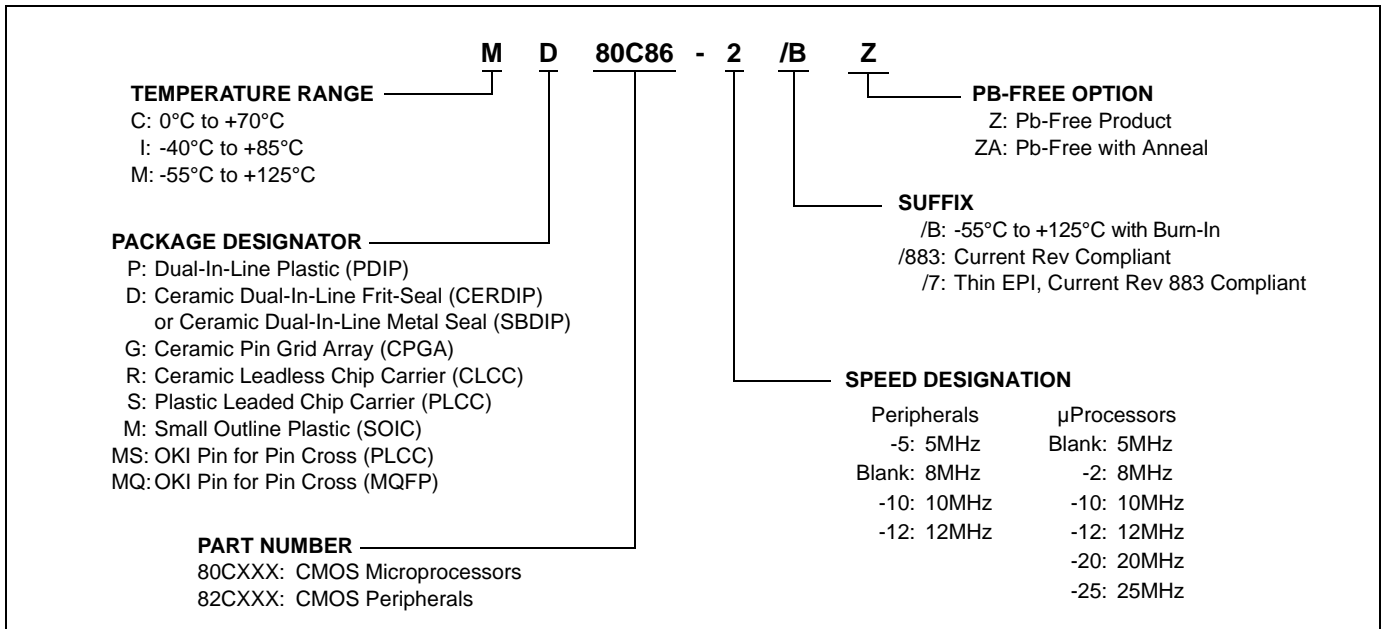
Nomenclature Guide

Intersil Legacy Nomenclatures

5962 SMD/DSCC - QML Types

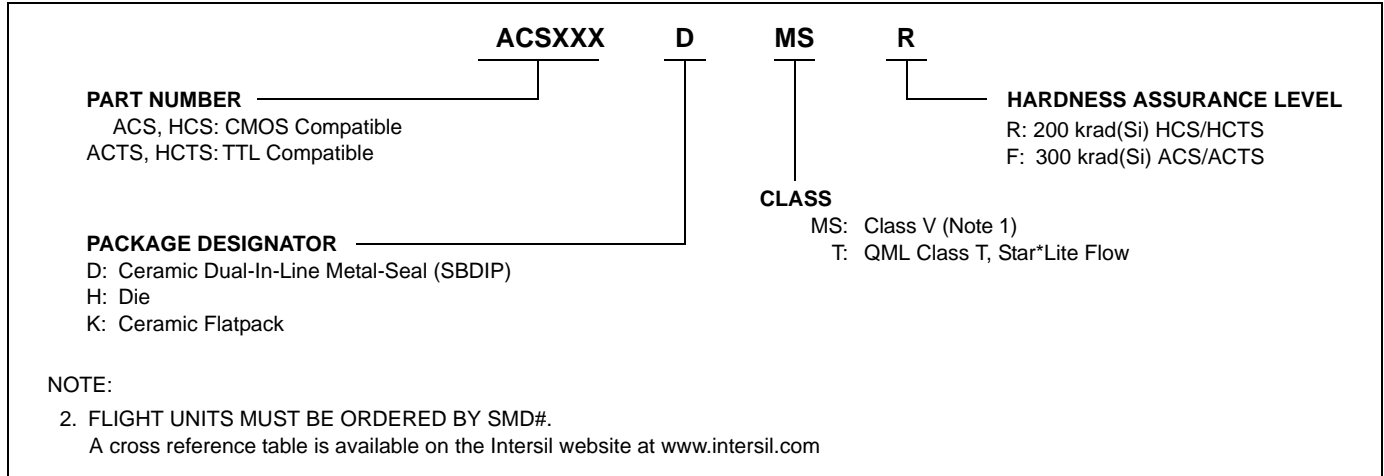


80C, 82CXXX Types

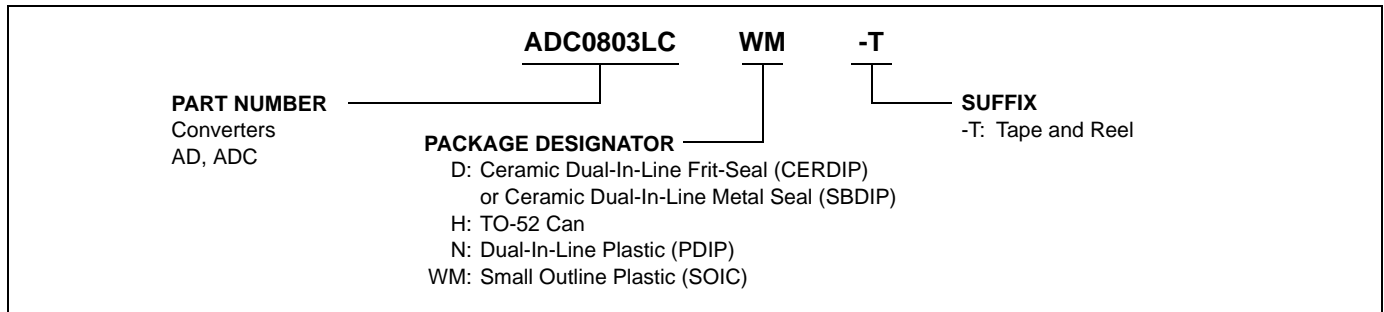


Nomenclature Guide

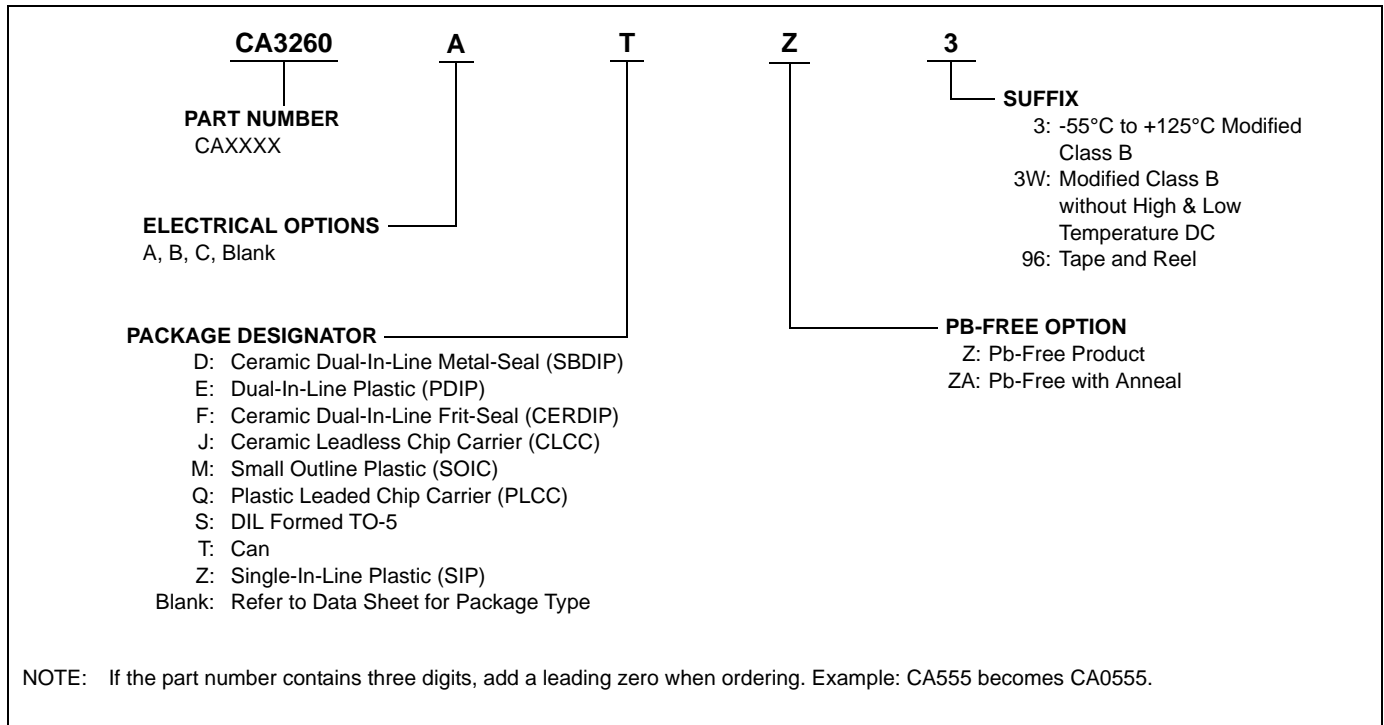
ACS, ACTS, HCS, HCTS Radiation Hardened Types



AD Types

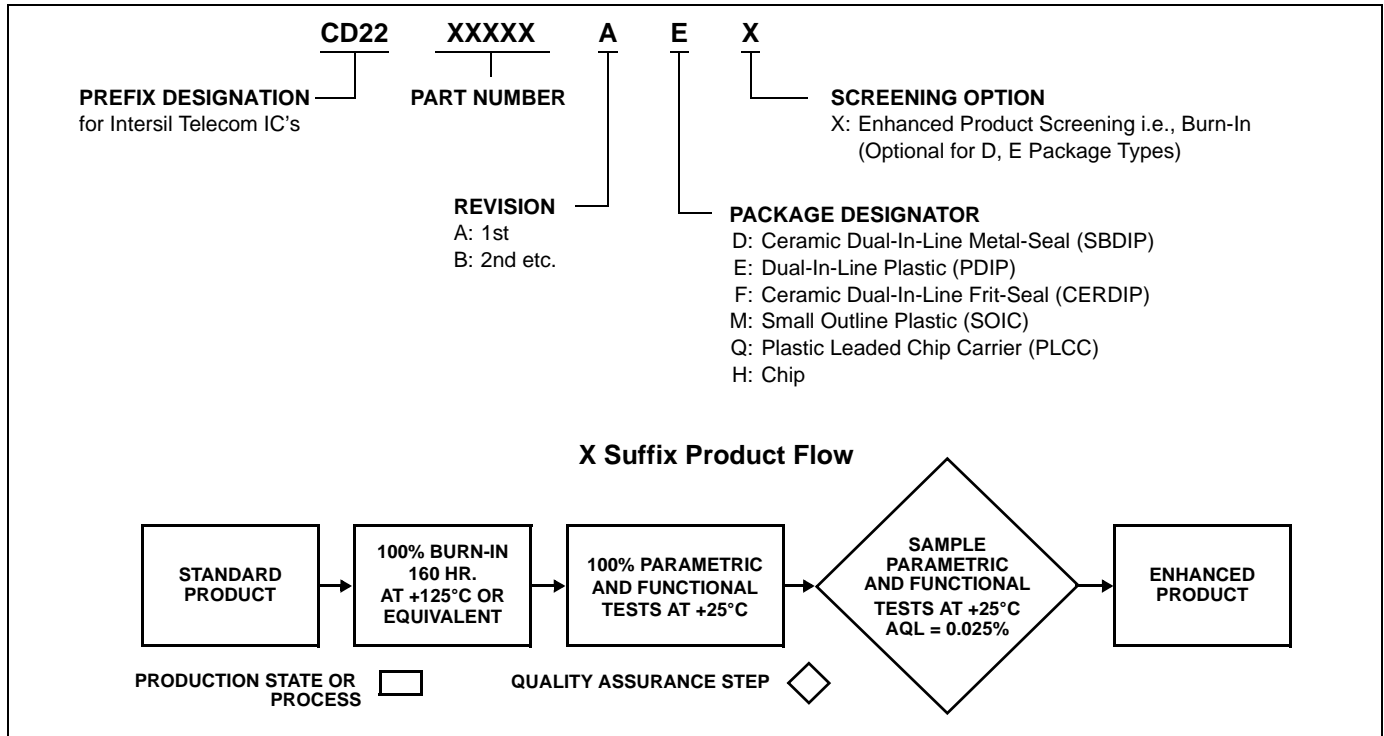


CA Types

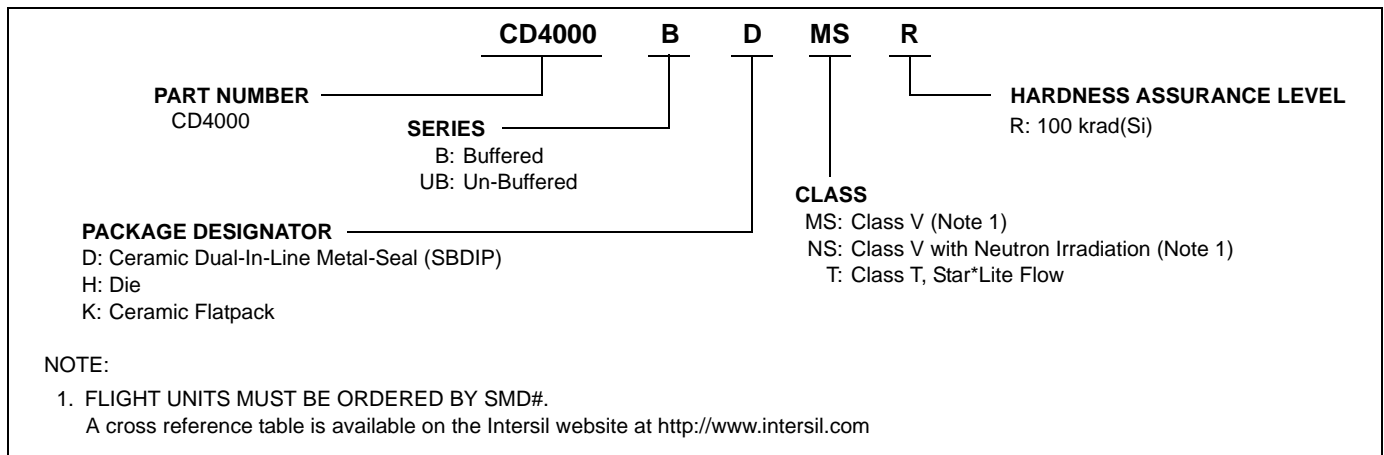


Nomenclature Guide

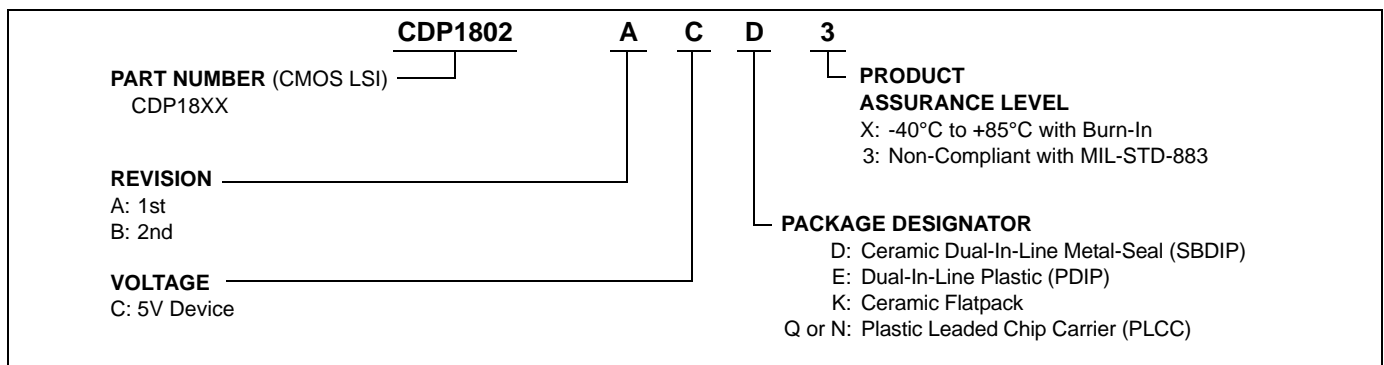
CD22XXX Types



CD4000 Radiation Hardened Types

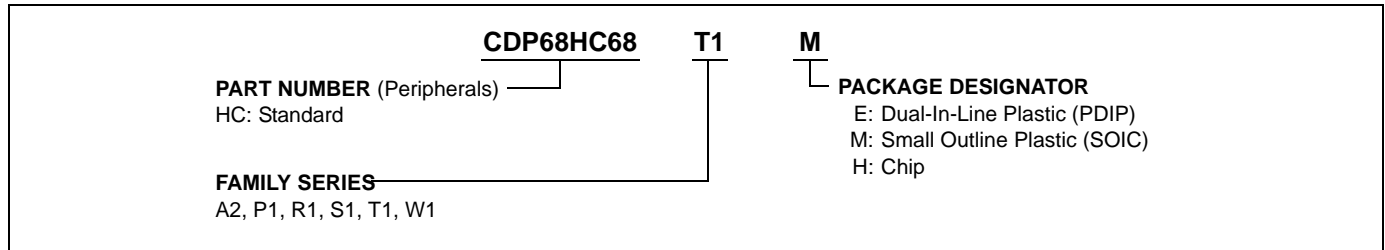


CDP Types

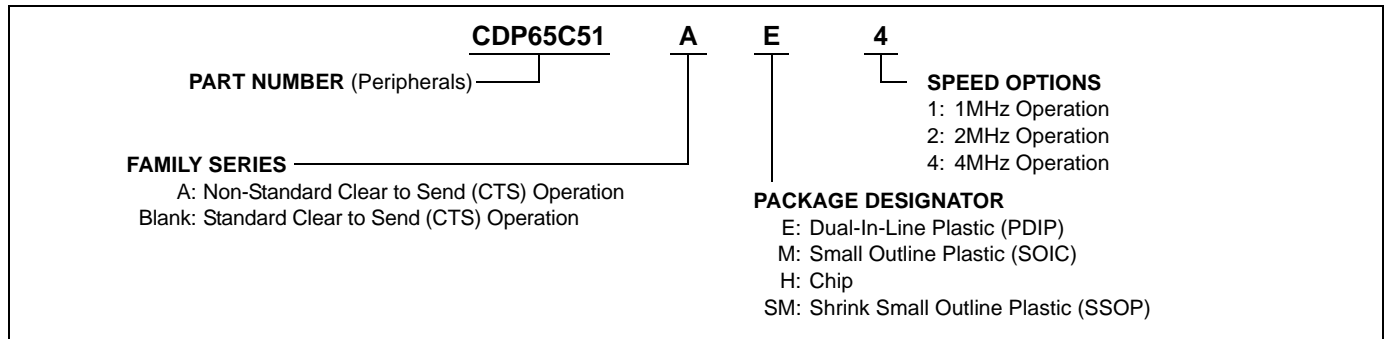


Nomenclature Guide

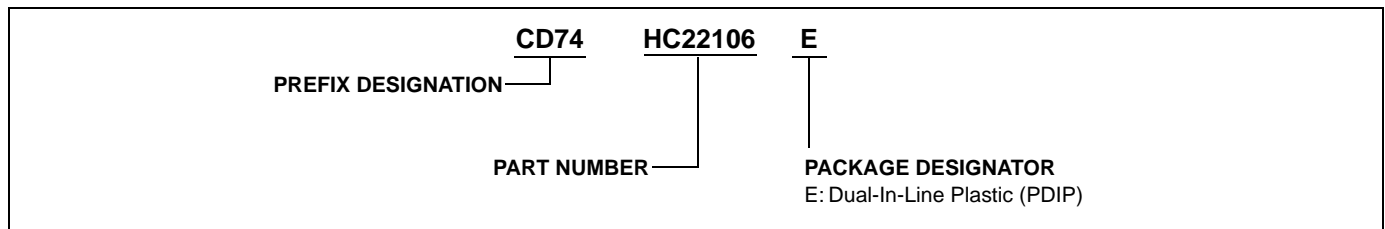
CDP68HC68 Types



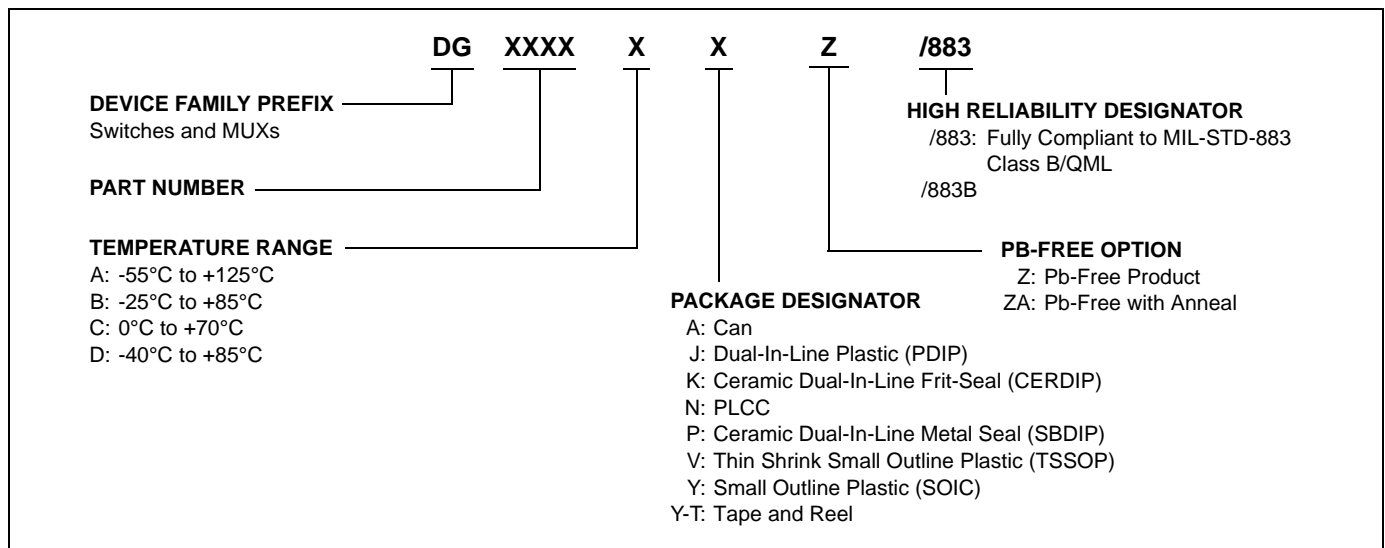
CDP65C51 Types



CD74HC Types

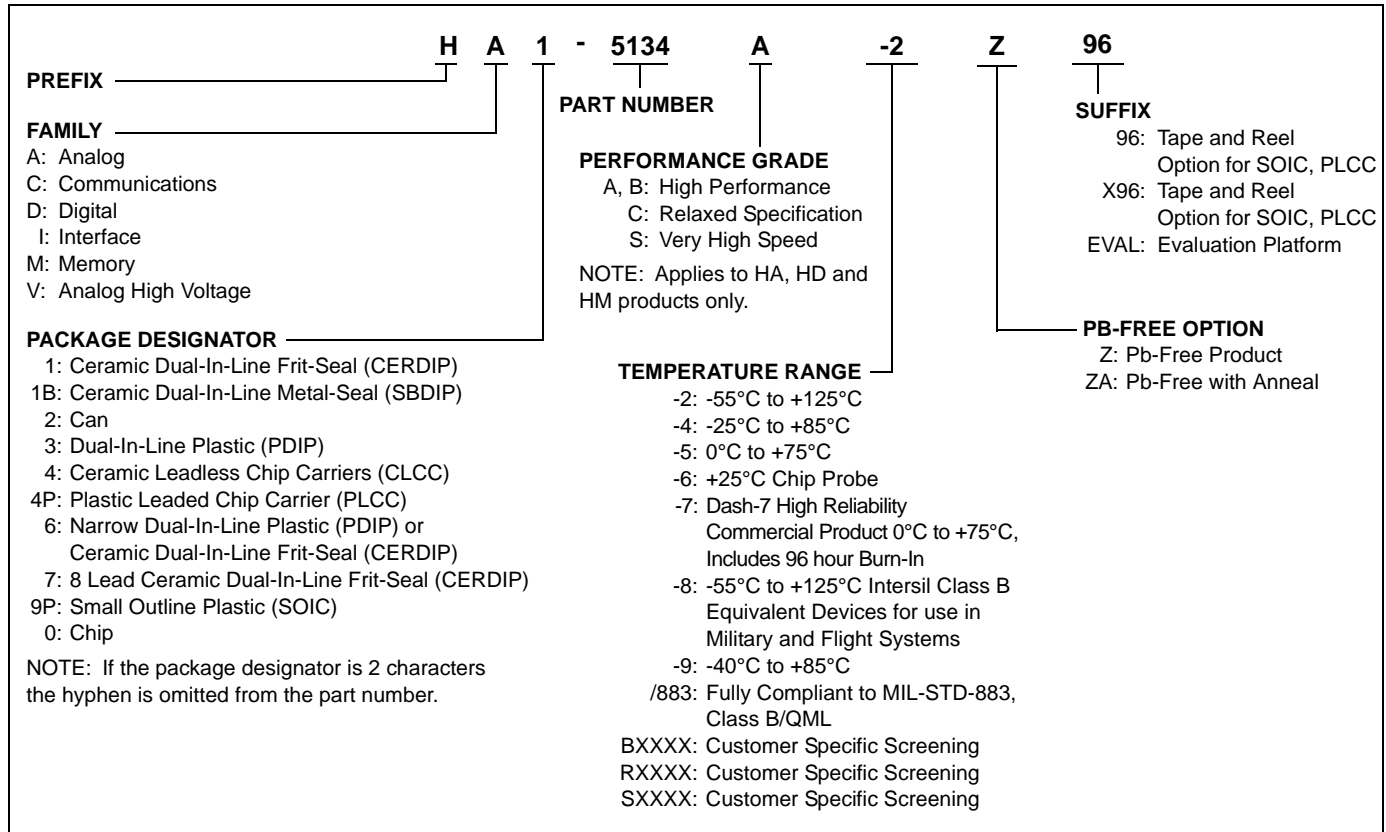


DG Types

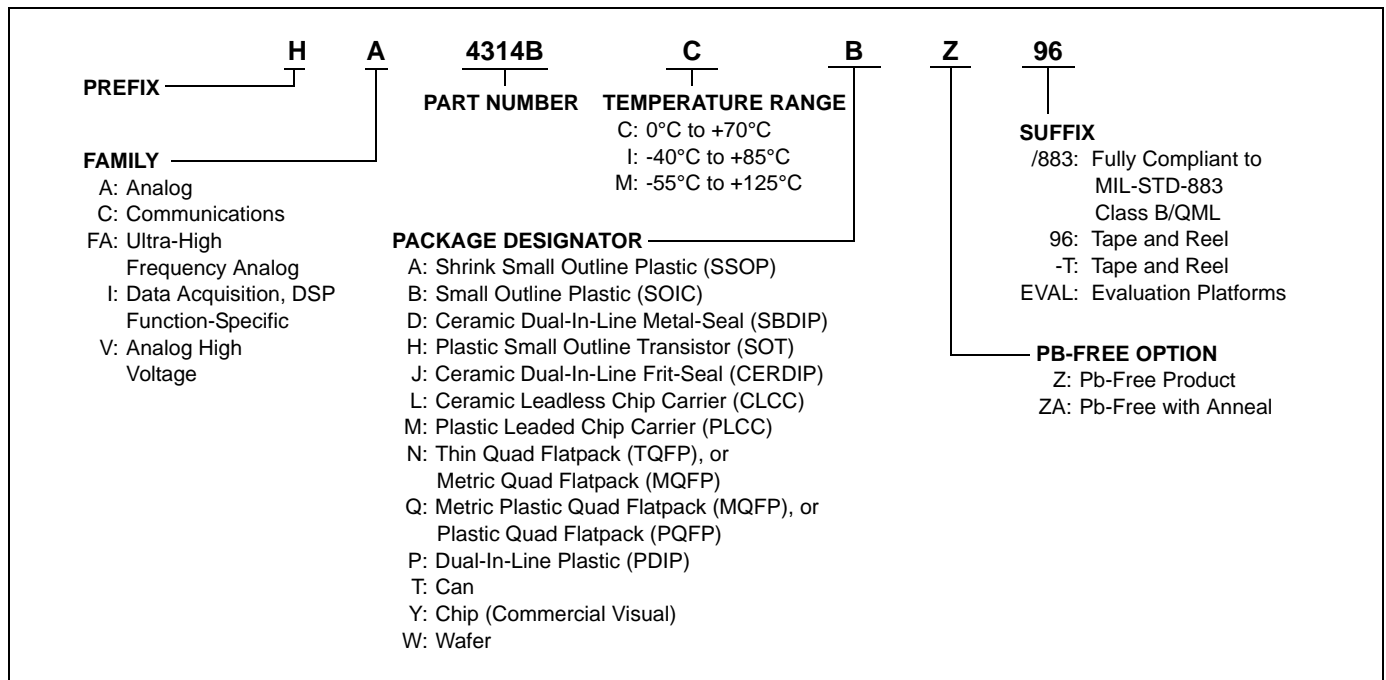


Nomenclature Guide

HX Types

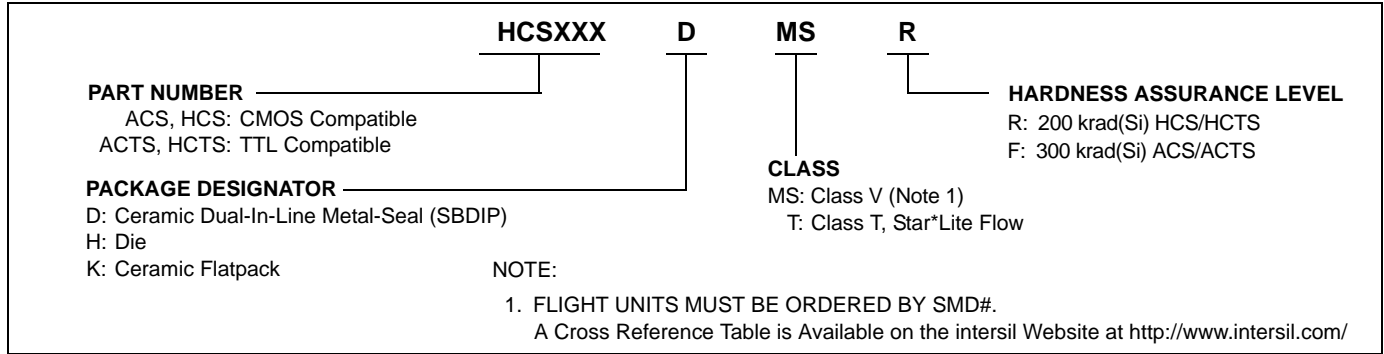


HX, HXX Types

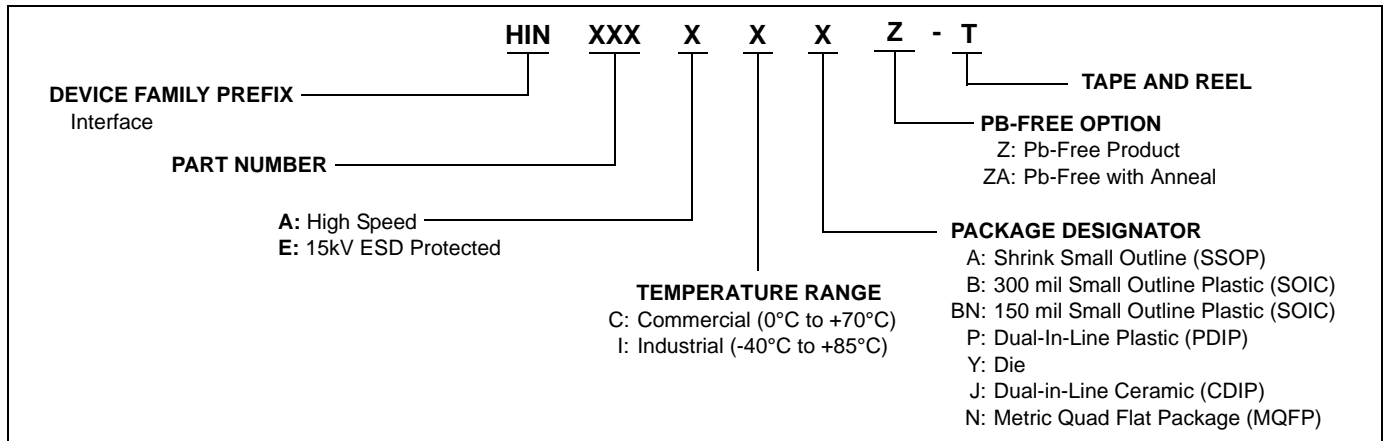


Nomenclature Guide

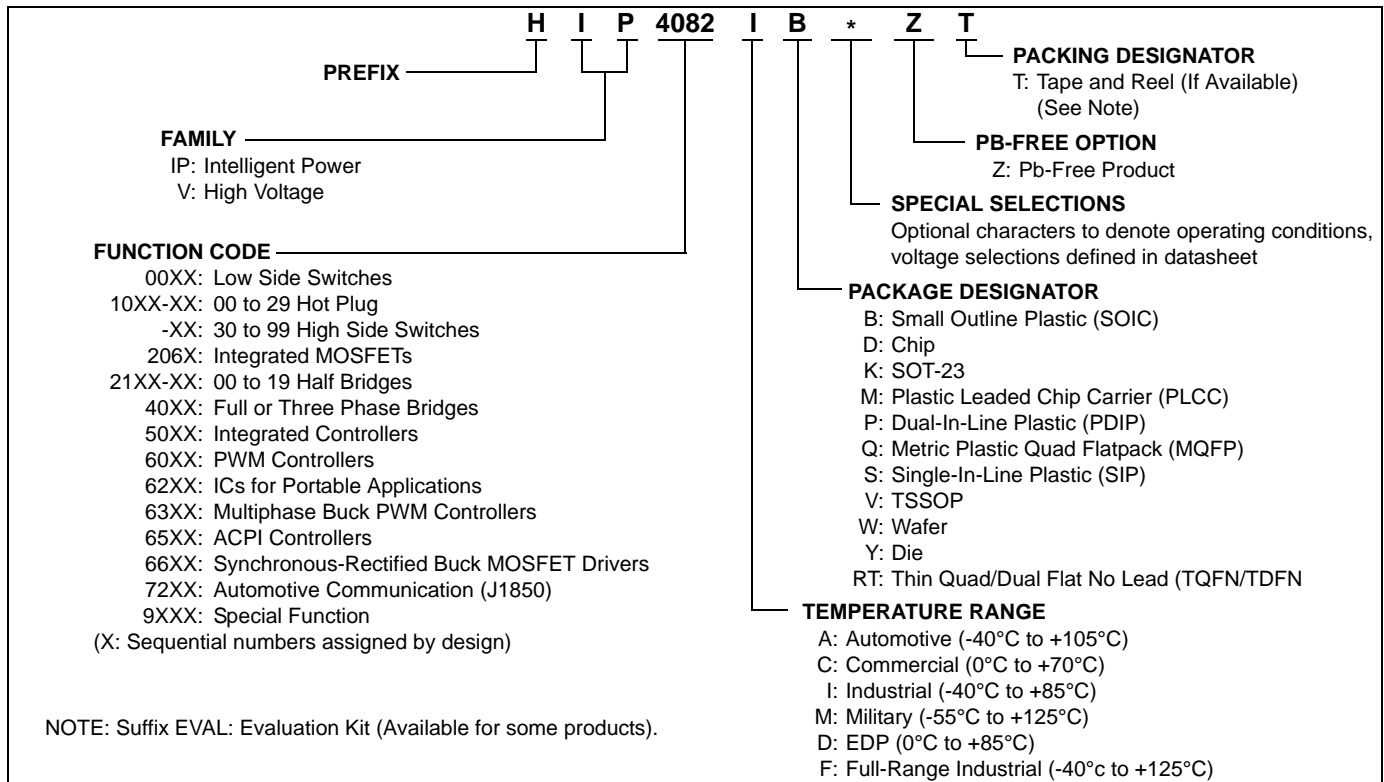
HCS, HCTS, ACS, ACTS, Radiation Hardened Types



HIN Types

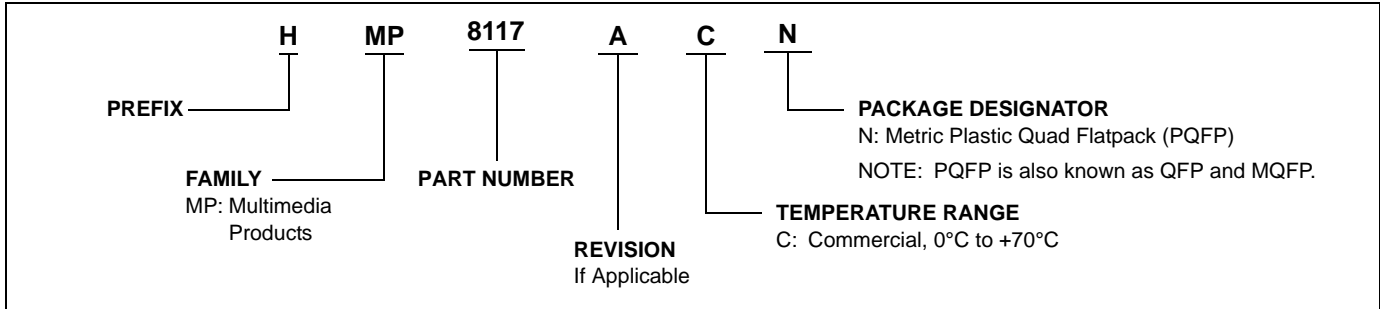


HIP Types

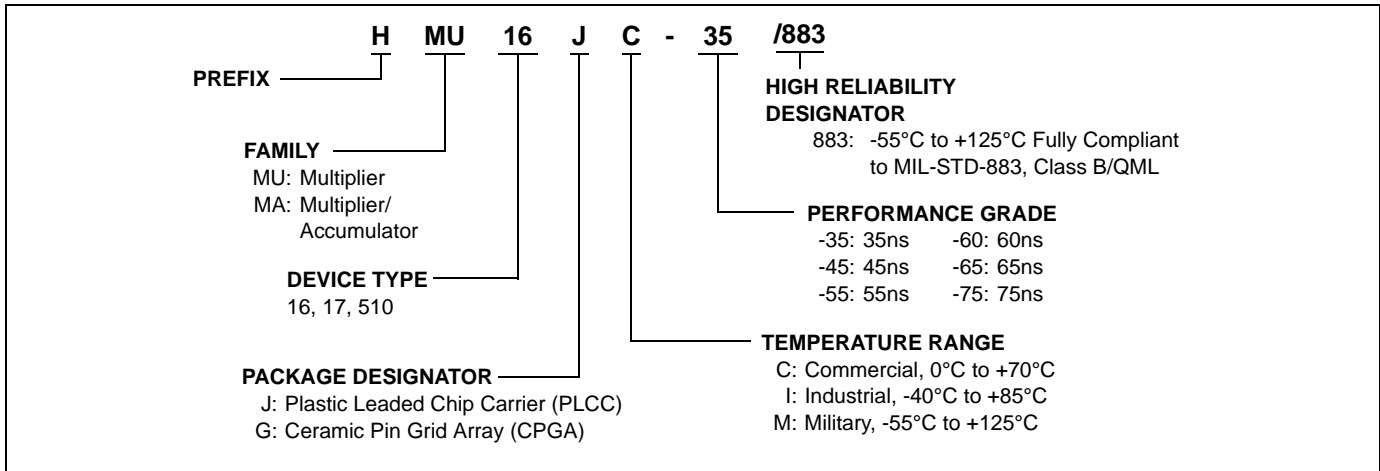


Nomenclature Guide

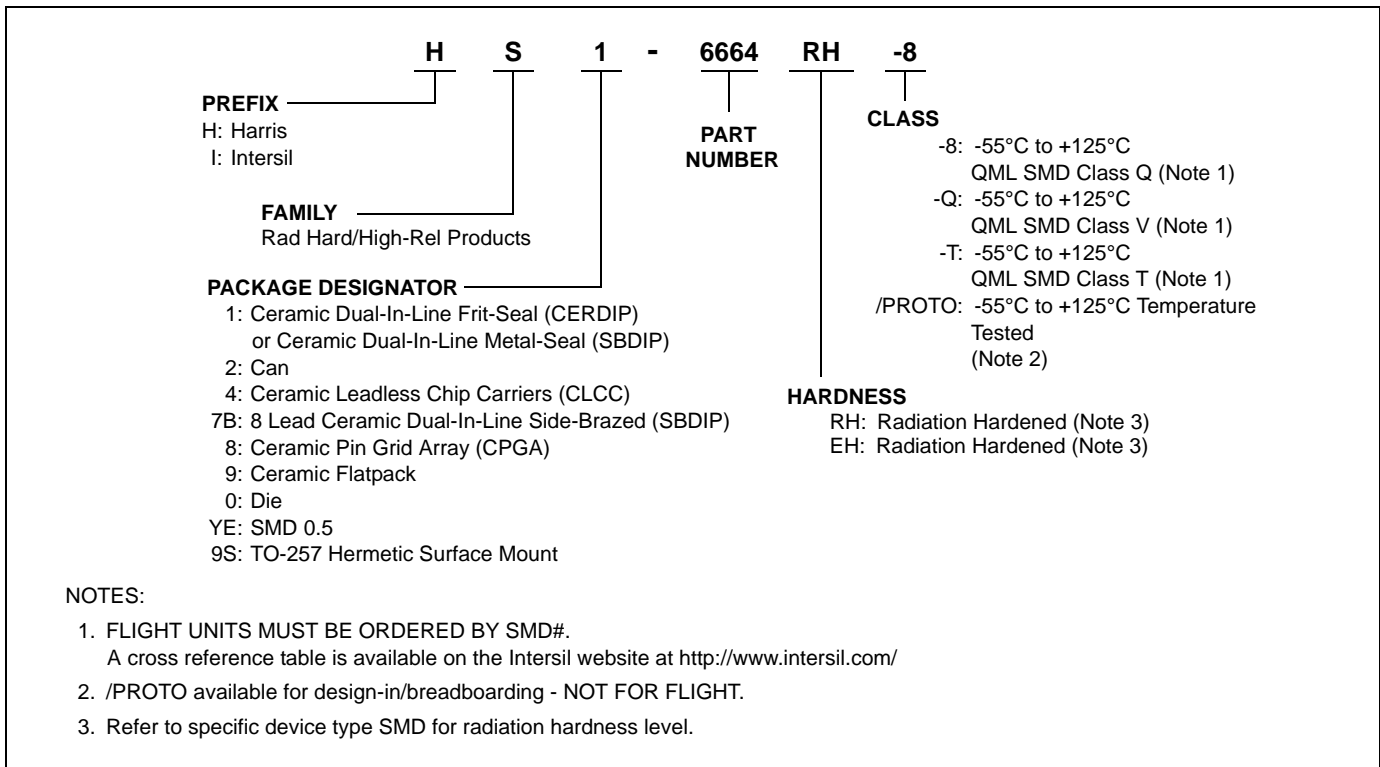
HMP Types



HMU/HMA Types

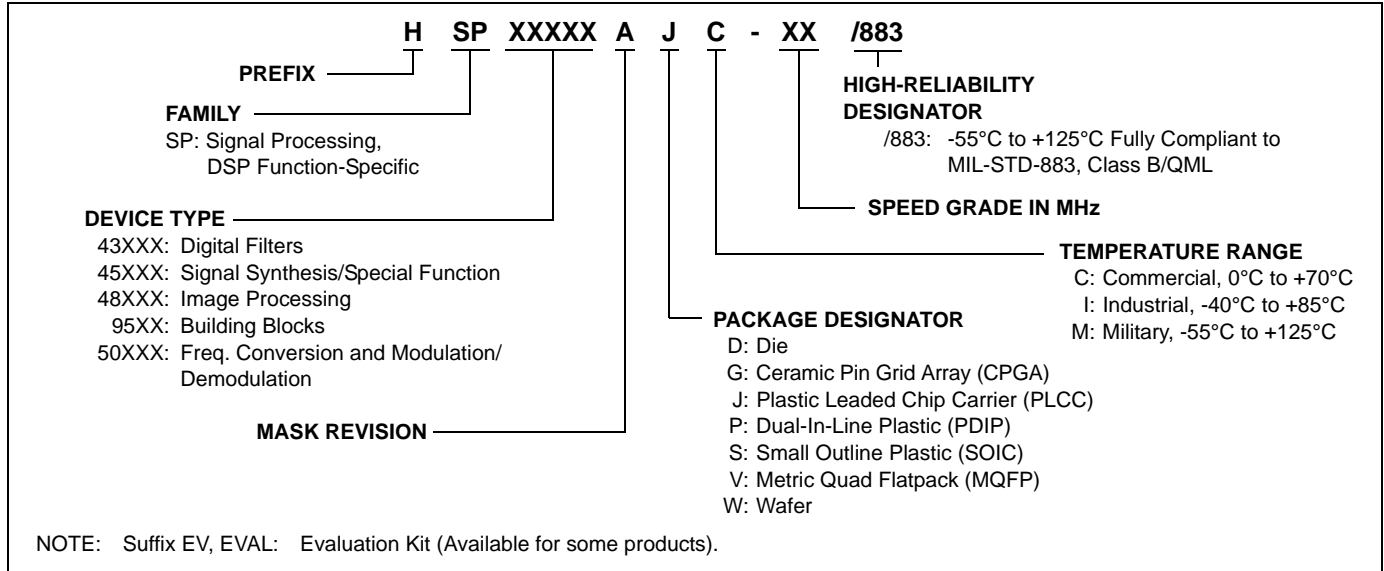


HS/IS Radiation Hardened Types

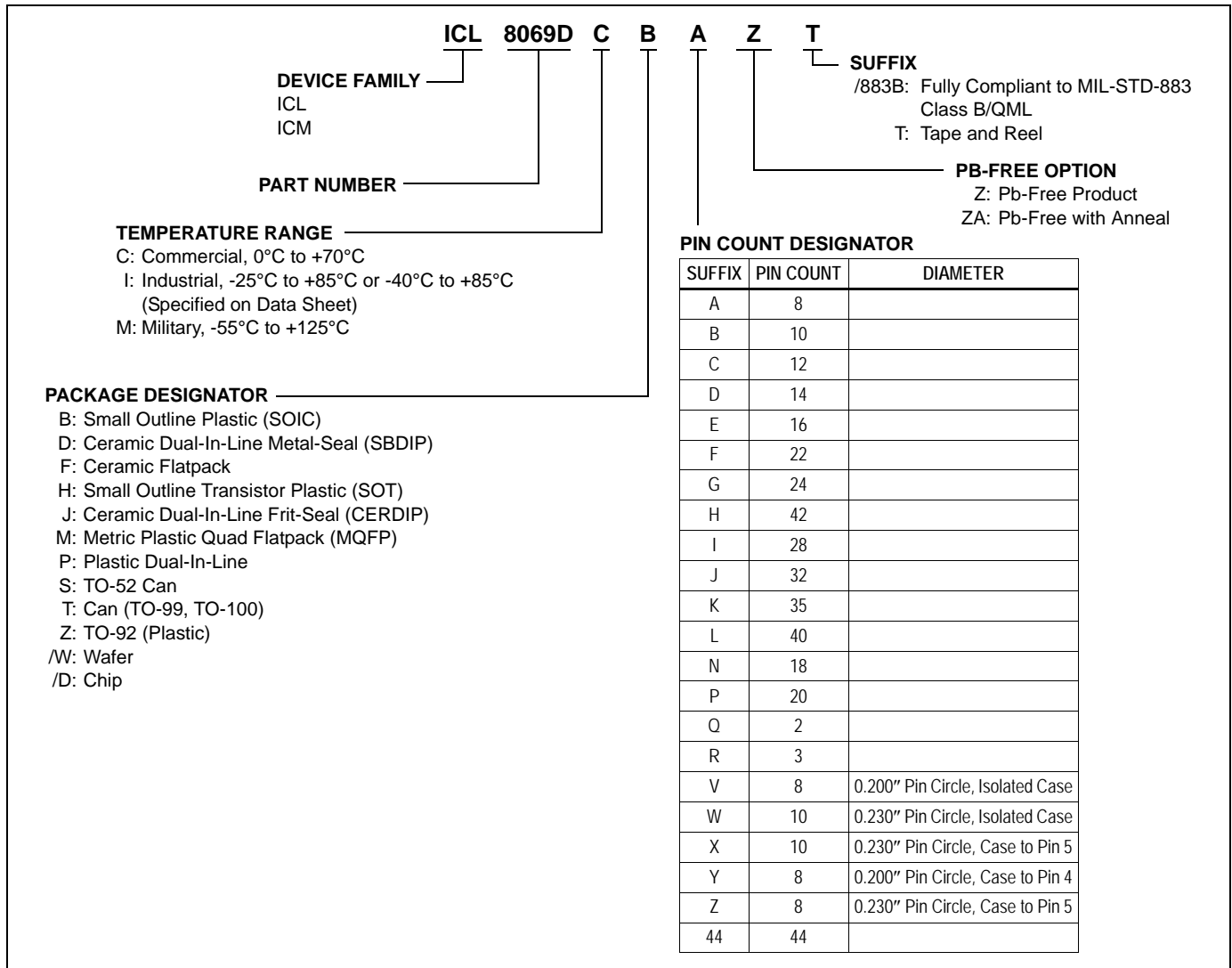


Nomenclature Guide

HSP Types

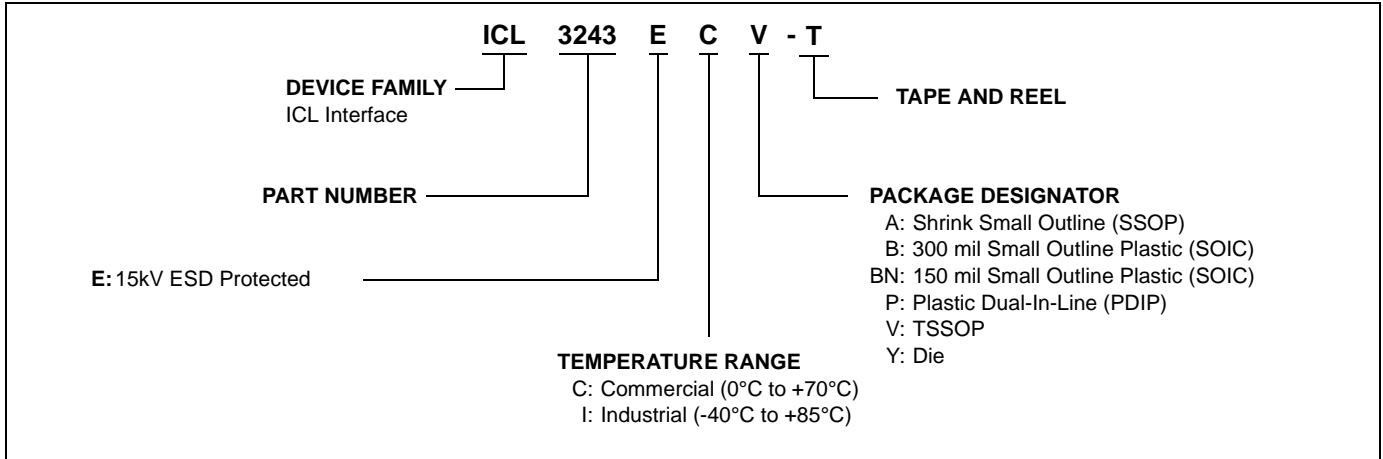


ICL, ICM Types



Nomenclature Guide

ICL Types (Interface Circuits)



JM JAN-QML Types

