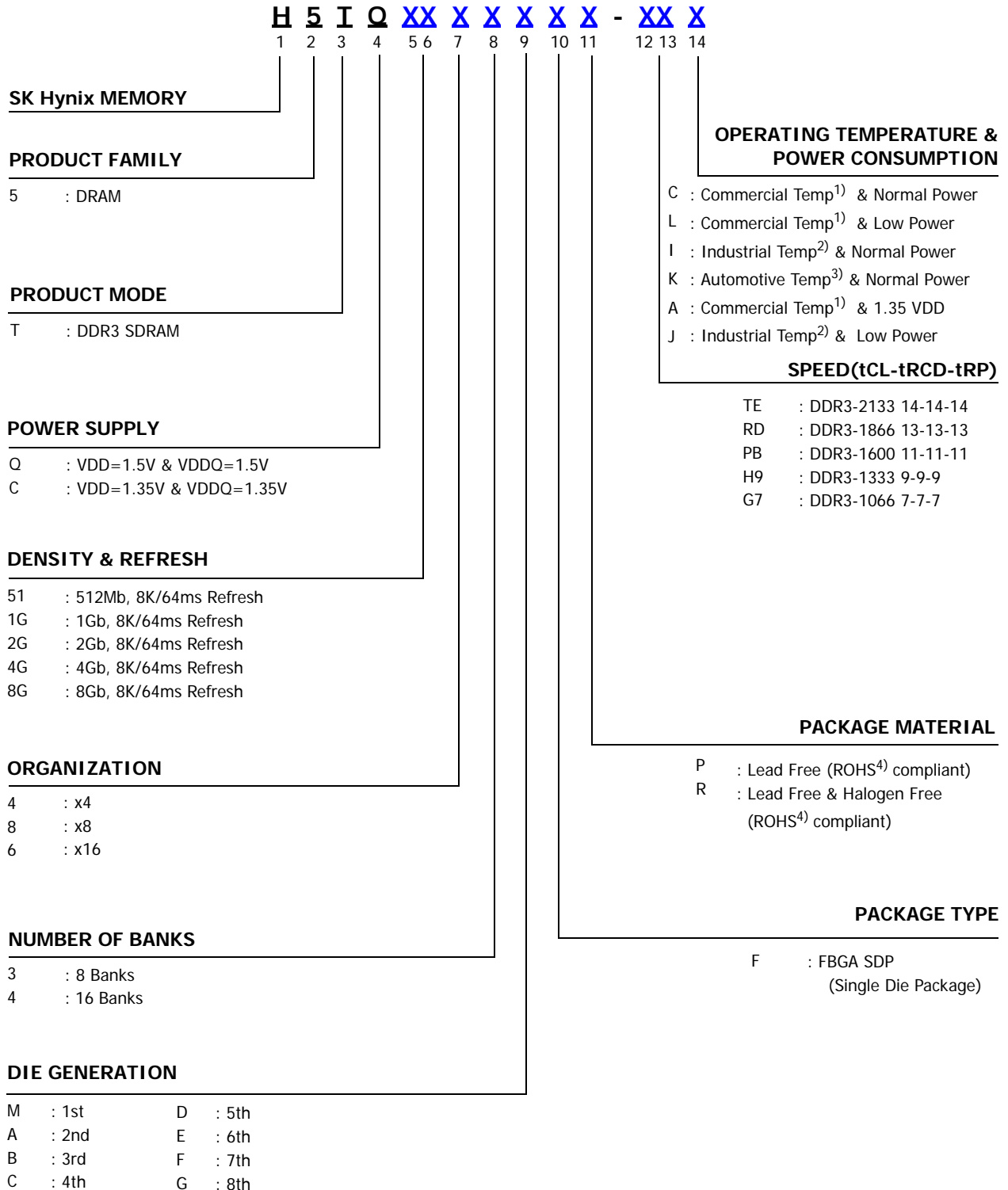


## DDR3 SDRAM PART NUMBERING



Note:

- 1) Commercial Temperature: 0°C ~ 85°C
- 2) Industrial Temperature: -40°C ~ 95°C
- 3) Automotive Temperature: -40°C ~ 105°C
- 4) ROHS : Restriction Of Hazardous Substances

**FOR UNDERSTANDING OPERATING TEMPERATURE & POWER CONSUMPTION**

**H 5 I Q XX X X X X X - XX X**

The last digit has 2 different information regarding Operation Temperature and Power Consumption. The following tables show for each combination of symbols. The main difference between 1.5V and 1.35V is the combination result of Commercial Temp and Normal Temp. "C" for 1.5V and "A" for 1.35V.

**1.5V**

	Commercial Temp <sup>1)</sup>	Industrial Temp <sup>2)</sup>	Automotive Temp <sup>3)</sup>
Normal Power	C	I	K
Low Power (Screened IDD6)	L	J	N/A

**1.35V**

	Commercial Temp	Industrial Temp	Automotive Temp
Normal Power	A	I	K
Low Power (Screened IDD6)	L	J	N/A

**EXAMPLE 1) 1.5V DDR3 2Gb x8 D-die 1866Mbps**

	Commercial Temp	Industrial Temp	Automotive Temp
Normal Power	H5TQ2G83DFR-RD <b>C</b>	H5TQ2G83DFR-RD <b>I</b>	H5TQ2G83DFR-RD <b>K</b>
Low Power (Screened IDD6)	H5TQ2G83DFR-RD <b>L</b>	H5TQ2G83DFR-RD <b>J</b>	N/A

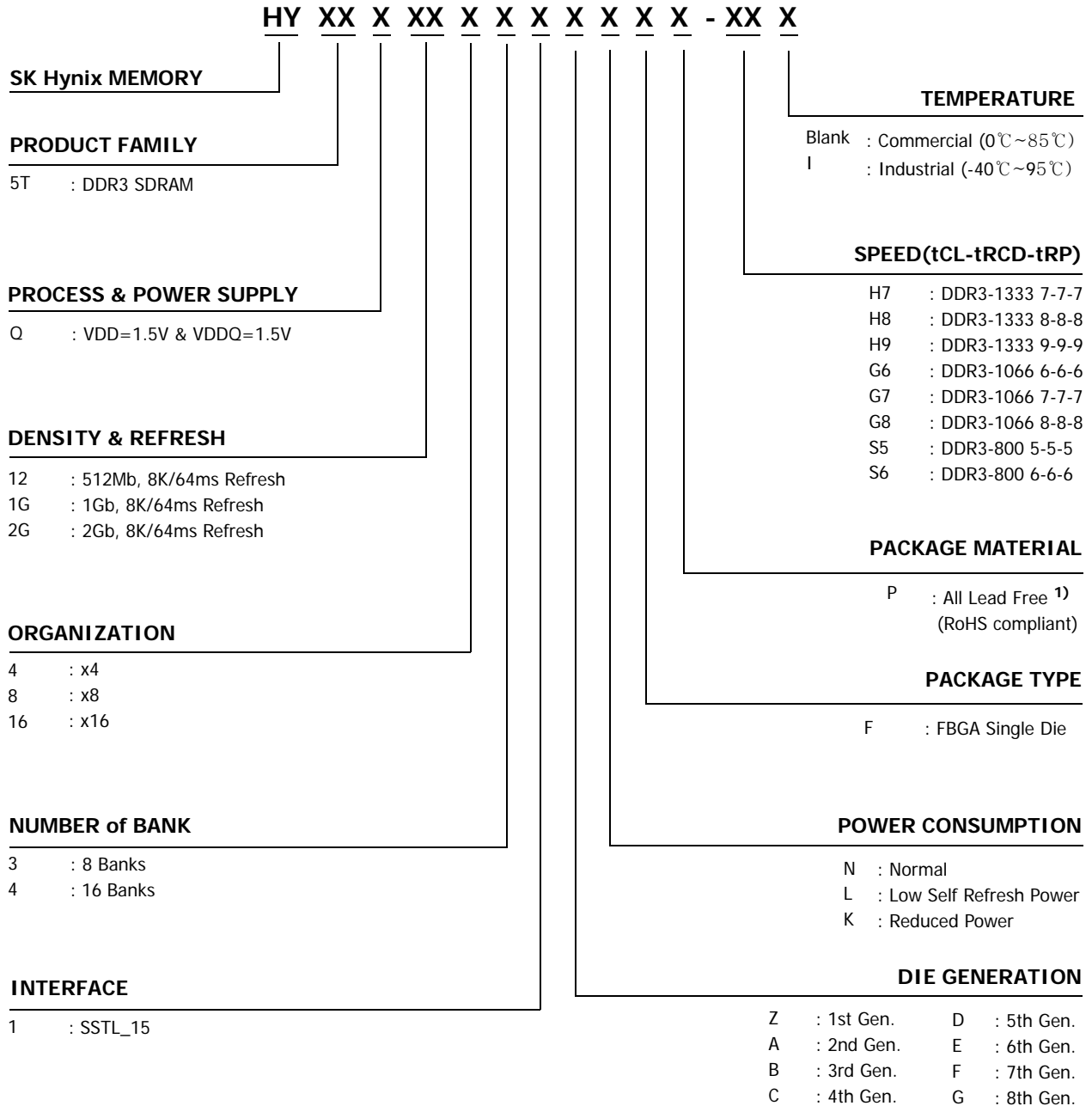
**EXAMPLE 2) 1.35V DDR3L 2Gb x8 D-die 1866Mbps**

	Commercial Temp	Industrial Temp	Automotive Temp
Normal Power	H5T <b>C</b> 2G83DFR-RD <b>A</b>	H5T <b>C</b> 2G83DFR-RD <b>I</b>	H5T <b>C</b> 2G83DFR-RD <b>K</b>
Low Power (Screened IDD6)	H5T <b>C</b> 2G83DFR-RD <b>L</b>	H5T <b>C</b> 2G83DFR-RD <b>J</b>	N/A

Note:

- 1) Commercial Temperature: 0°C ~ 85°C
- 2) Industrial Temperature: -40°C ~ 95°C
- 3) Automotive Temperature: -40°C ~ 105°C

## DDR3 SDRAM PART NUMBERING



**Notes)**

1. All Lead-free and RoHS compliant ~ RoHS: Restriction of Hazardous Substance
2. All DDR3 partnumber may also be changed by the result of nomenclature revision in progress