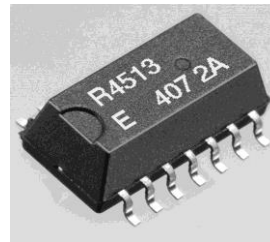
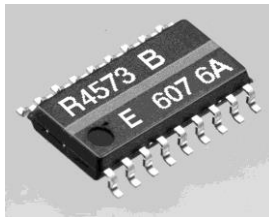


# Product Configuration Guide

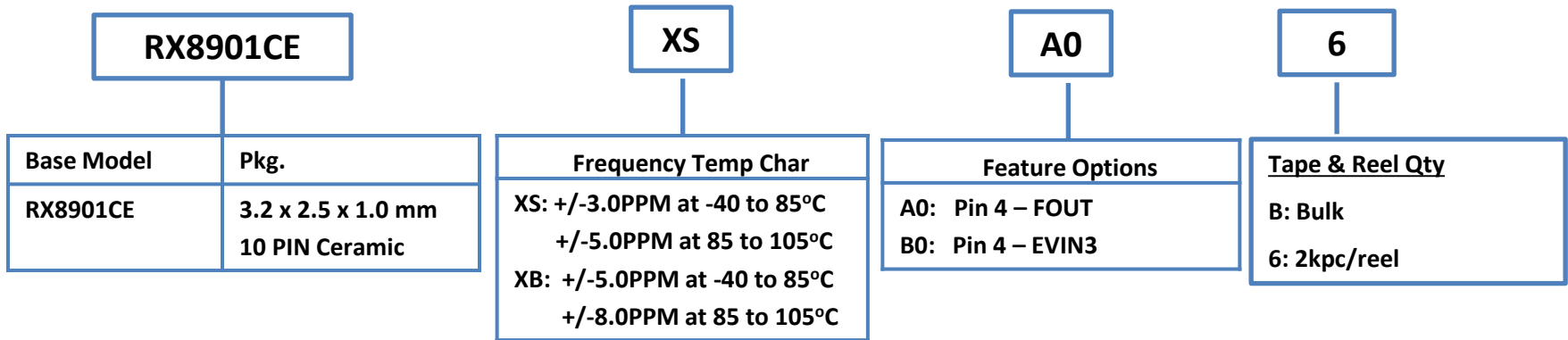
## REAL TIME CLOCKS



# Product Configuration System



## Real Time Clock Modules – I<sup>2</sup>C-Bus



### Examples:

RX8901CE XB A06

RX8901CE XS B06

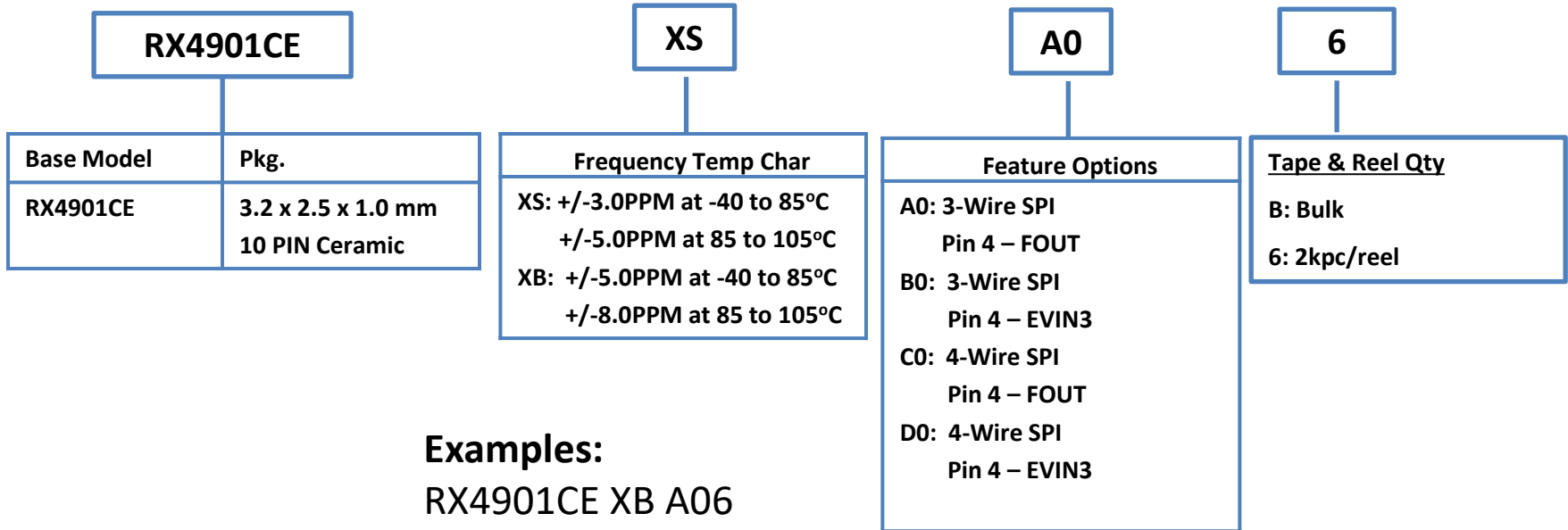
**NOTE:**

Please contact us for requirements not listed in this specification.

# Product Configuration System



## Real Time Clock Modules – SPI-Bus



**Examples:**  
 RX4901CE XB A06  
 RX4901CE XS B06

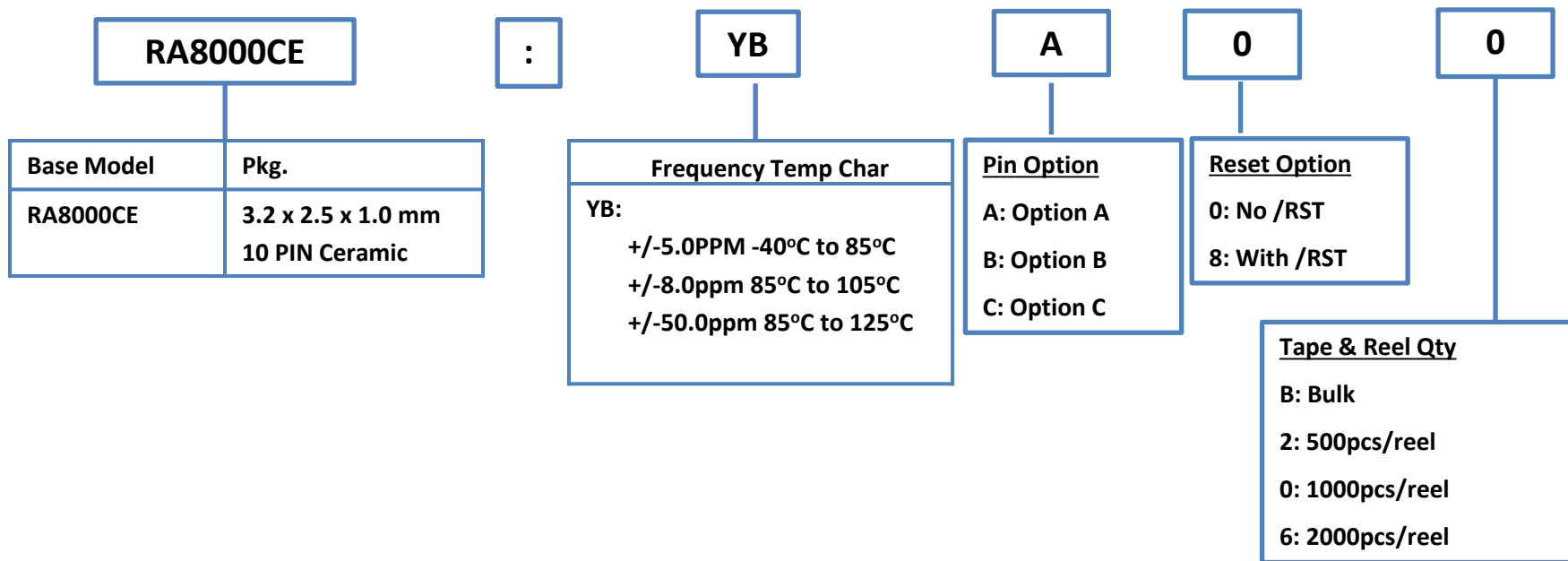
**NOTE:**

Please contact us for requirements not listed in this specification.

# Product Configuration System



## Real Time Clock Modules – I<sup>2</sup>C-Bus, Automotive (AEC-Q100)



**Automotive Grade product**  
**Approved Customer & Application only**  
**Contact your Epson rep. for support**



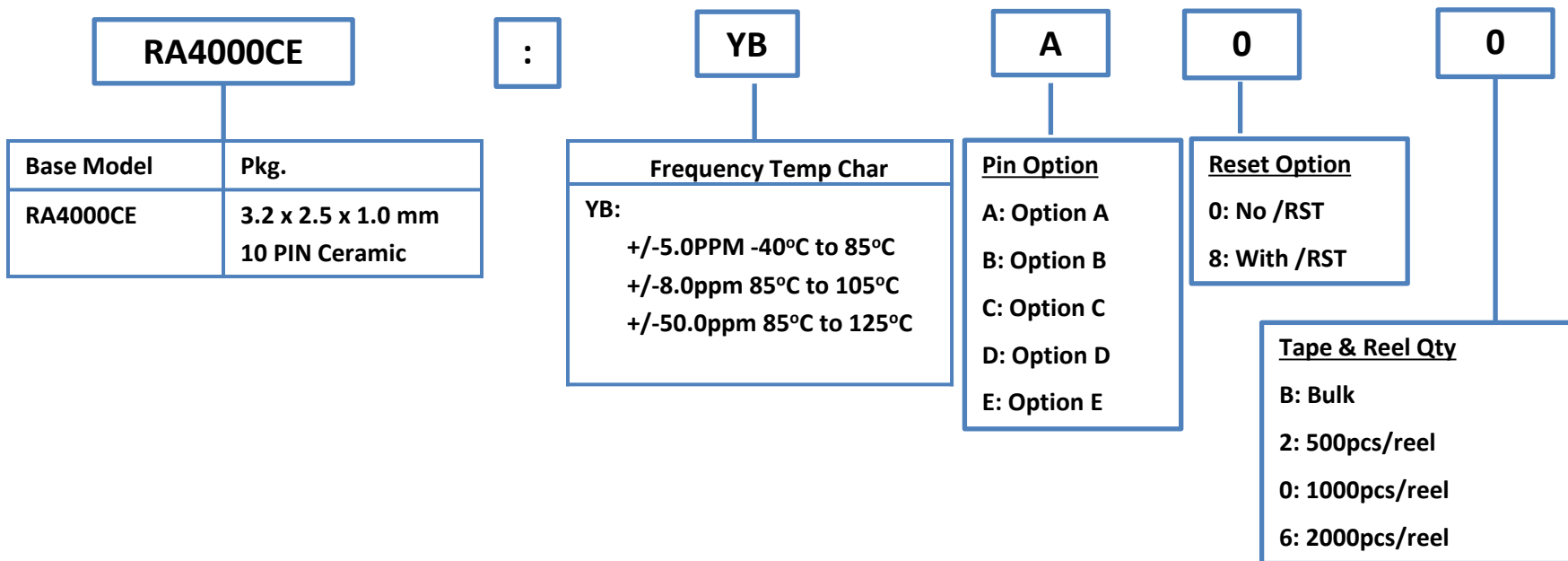
**NOTE:**

Please contact us for requirements not listed in this specification. Refer to DS for Pin and Reset options

# Product Configuration System



## Real Time Clock Modules – SPI-Bus, Automotive (AEC-Q100)



**Automotive Grade product  
Approved Customer & Application only  
Contact your Epson rep. for support**

**EPSON**

August 2024

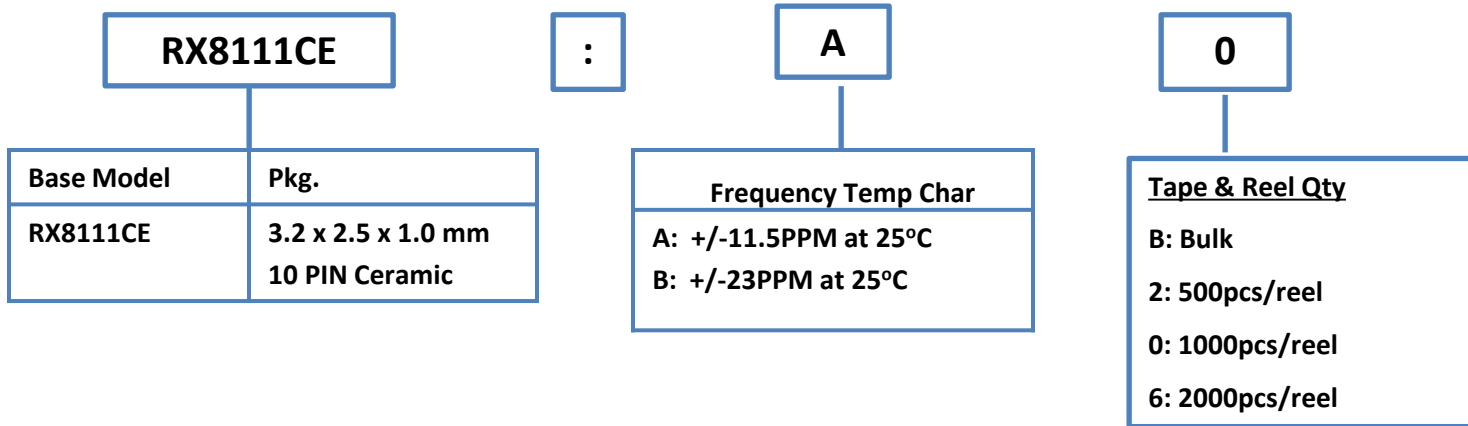
NOTE:

Please contact us for requirements not listed in this specification. Refer to DS for Pin and Reset options

# Product Configuration System



## Real Time Clock Modules – I<sup>2</sup>C-Bus



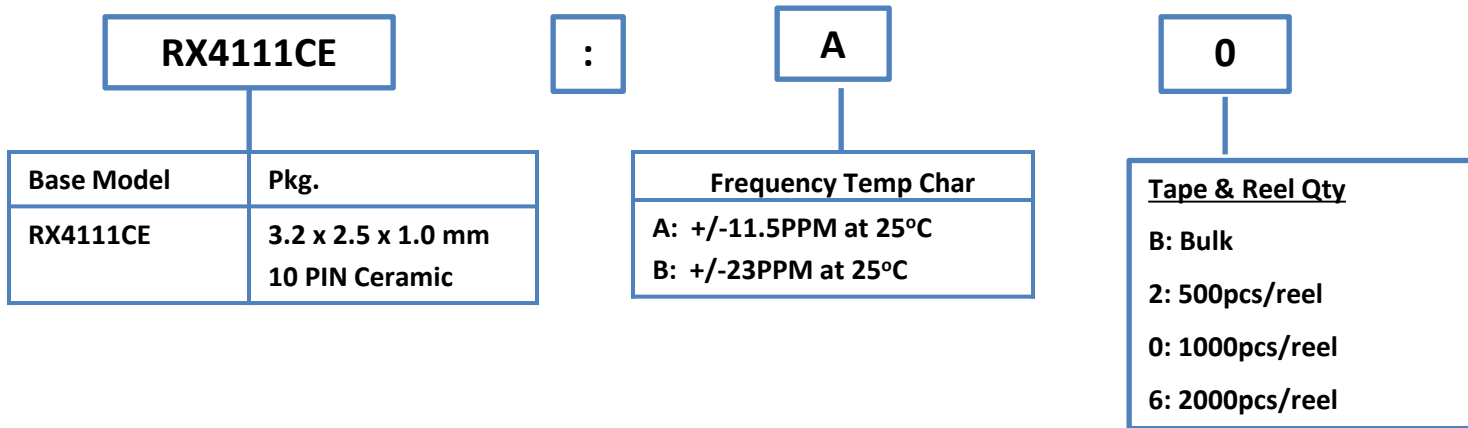
**NOTE:**

Please contact us for requirements not listed in this specification.

# Product Configuration System



## Real Time Clock Modules – SPI



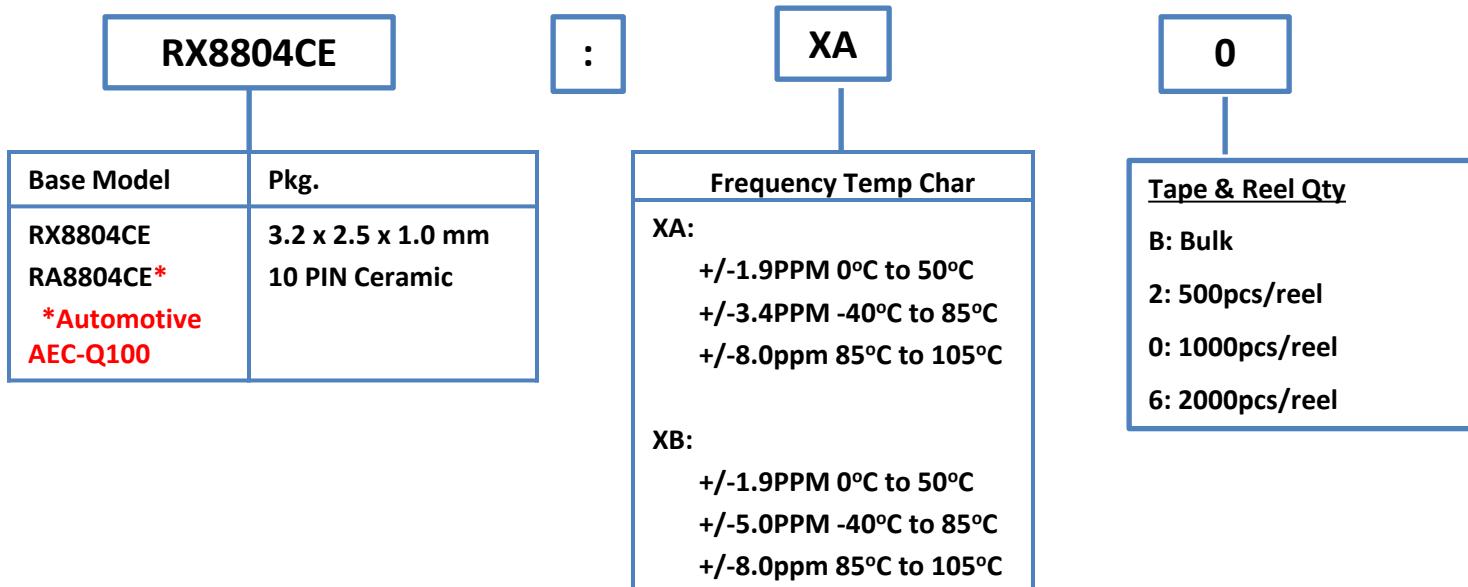
**NOTE:**

Please contact us for requirements not listed in this specification.

# Product Configuration System



## Real Time Clock Modules – I<sup>2</sup>C-Bus



**\*Automotive Grade product  
Approved Customer & Application only  
Contact your Epson rep. for support**



**NOTE:**

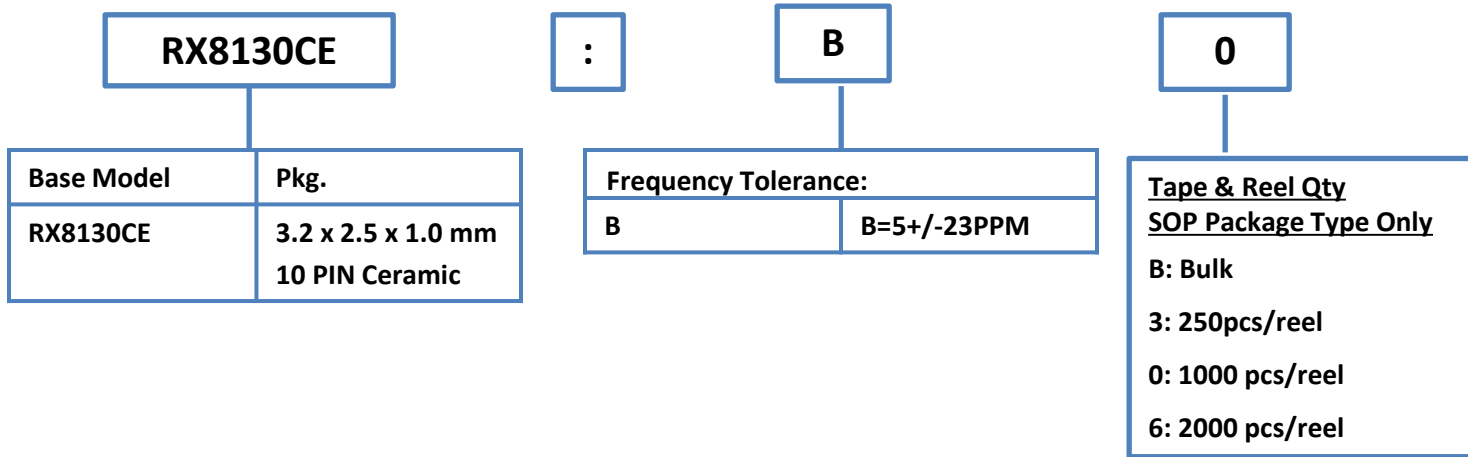
Please contact us for requirements not listed in this specification.



# Product Configuration System



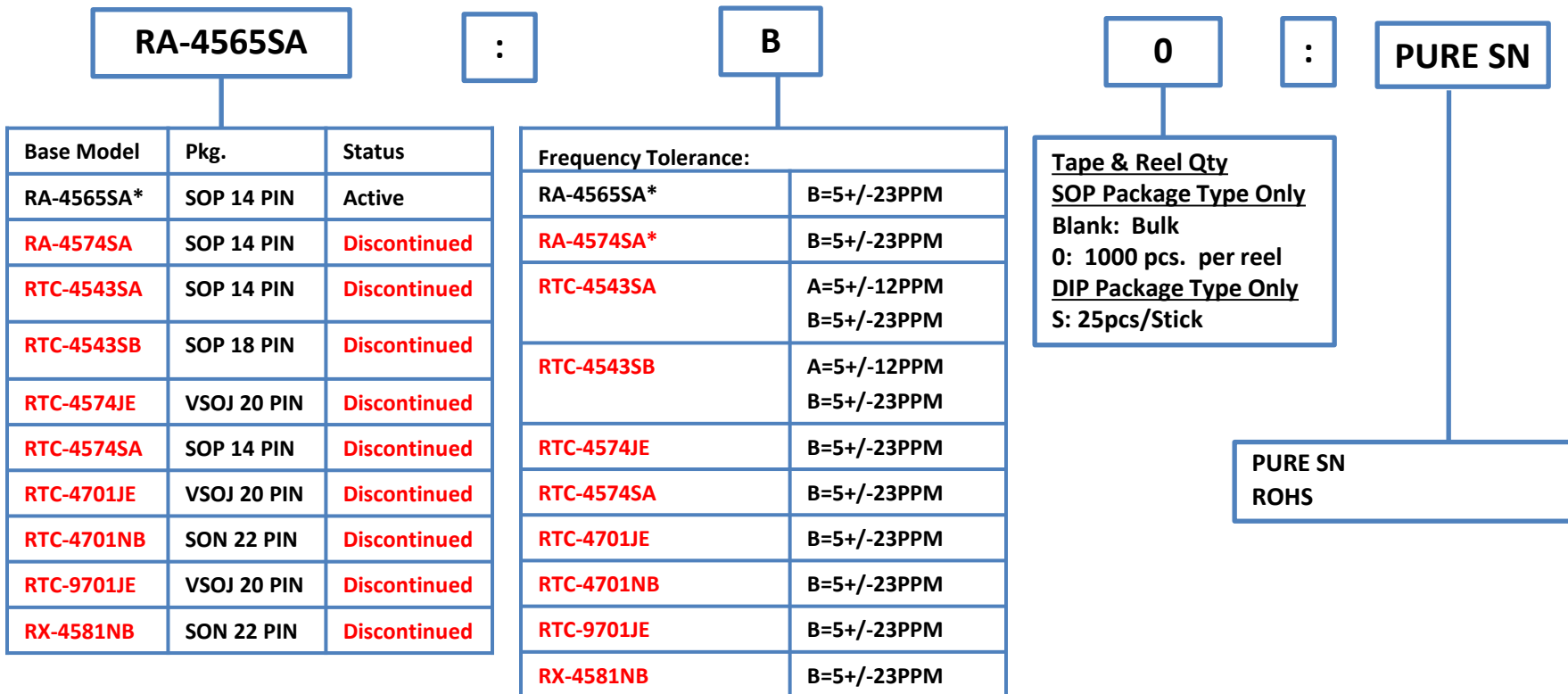
## Real Time Clock Modules – I<sup>2</sup>C-Bus



# Product Configuration System



## Real Time Clock Modules – Serial (3 Wire & 4 Wire)



**Automotive Grade product**  
**Approved Customer & Application only**  
**Contact your Epson rep. for support**



Note:  
 SA packages in "PURE SN" is **DISCONTINUED** but "RoHS " is ACTIVE.  
 Model P/N in RED font = **DISCONTINUED**  
 \*Automotive AEC-Q200

# Product Configuration System



## Real Time Clock Modules – Serial (3 Wire & 4 Wire)

RX-4571SA

:

B

0

:

PURE SN

Base Model	Pkg.	Status
<b>RTC-4574NB</b>	SON 22 PIN	<b>Discontinued</b>
RX-4045NB	SON 22 PIN	Active
RX-4045SA	SOP 14 PIN	Active
<b>RX-4574LC</b>	VSOJ 12 PIN	<b>Discontinued</b>
<b>RX-4575LC</b>	VSOJ 12 PIN	<b>Discontinued</b>
RX-4571LC	VSOJ 12 PIN	Active
RX-4571NB	SON 22 PIN	Active
RX-4571SA	SOP 14 PIN	Active
<b>RX-4801SA</b>	SOP 14 PIN	<b>Discontinued</b>
RX-4803SA	SOP 14 PIN	Active
RX-4803LC	VSOJ 12 PIN	Active

Frequency Tolerance (Ta =+25 °C):	
<b>RTC-4574NB</b>	B=5+/-23PPM
RX-4045NB, RX-4045SA	AA=5+/-5PPM AC=0+/-5PPM
<b>RX-4574LC</b>	B=5+/-23PPM
<b>RX-4575LC</b>	B=5+/-23PPM
RX-4571LC	B=5+/-23PPM
RX-4571NB	B=5+/-23PPM
RX-4571SA	B=5+/-23PPM
<b>RX-4801SA</b>	Over -40 to +85 °C UB=+/-5PPM
RX-4803SA, RX-4803LC	Over -40 to +85 °C UA=+/-3.4PPM UB=+/-5PPM

Tape & Reel Qty  
SOP Package Type Only  
 Blank: Bulk  
 0: 1000 pcs. per reel  
DIP Package Type Only  
 S: 25pcs/Stick

PURE SN  
 Blank : Already RoHS Compliant

Note:  
 All LC packages are already RoHS Compliant with "PURE SN".  
 LC packages with "PURE SN" are DISCONTINUED  
 \*RX-4575LC - Sn-Ag Plating NOT PURE SN  
 Model P/N in RED font = DISCONTINUED



# Product Configuration System



## Real Time Clock Modules – I<sup>2</sup>C-Bus

RX-8571SA

:

B

0

:

PURE SN

Base Model	Pkg.	Status
<b>RA-8565SA*</b>	<b>SOP 14 PIN</b>	<b>Discontinued</b>
RX-8025NB	SON 22 PIN	Active
RX-8025SA	SOP 14 PIN	Active
RX-8564LC	VSOJ 12 PIN	Active
RX-8571SA	SOP 14 PIN	Active
RX-8571NB	SON 22 PIN	Active
RX-8571LC	VSOJ 12 PIN	Active
<b>RX-8581JE</b>	VSOJ 20 PIN	<b>Discontinued</b>
<b>RX-8581NB</b>	SON 22 PIN	<b>Discontinued</b>
<b>RX-8581SA</b>	SON 14 PIN	<b>Discontinued</b>
RX-8731LC	VSOJ 12 PIN	Active

Frequency Tolerance:	
<b>RA-8565SA*</b>	<b>B=5+/-23PPM</b>
RX-8025NB	AA=5+/-5PPM
RX-8025SA	AA=5+/-5PPM
RX-8564LC	B=5+/-23PPM
RX-8571SA	B=5+/-23PPM
RX-8571NB	B=5+/-23PPM
RX-8571LC	B=5+/-23PPM
<b>RX-8581JE</b>	<b>B=5+/-23PPM</b>
<b>RX-8581NB</b>	<b>B=5+/-23PPM</b>
RX-8581SA	B=5+/-23PPM
RX-8731LC	B=5+/-23PPM

**Tape & Reel Qty**  
**SOP Package Type Only**  
 Blank: Bulk  
 0: 1000 pcs. per reel  
**DIP Package Type Only**  
 S: 25pcs/Stick

**PURE SN**  
 Blank : Already RoHS Compliant

**\*Automotive Grade product**  
**Approved Customer & Application only**  
**Contact your Epson rep. for support**

Note:  
 All LC packages are already RoHS Compliant with "PURE SN"  
**Model P/N in RED font = DISCONTINUED**  
 \*Automotive AEC-Q200



# Product Configuration System



## Real Time Clock Modules – I<sup>2</sup>C-Bus

**\*Automotive Grade product**  
**Approved Customer & Application only**  
**Contact your Epson rep. for support**

RA-8581SA

:

B

0

:

PURE SN

Base Model	Pkg.	Status
RA-8581SA*	SOP 14 PIN	Discontinued
RTC-8564JE	VSOJ 20 PIN	Active
RTC-8564NB	SON 22 PIN	Active
RX8010SJ	SOP 8 PIN	Active
RA4803SA*	SOP 14 PIN	Active
RA8803SA*	SOP 14 PIN	Active
RX8900SA	SOP 14 PIN	Active
RA8900SA*	SOP 14 PIN	Active
RX8900CE	3.2x2.5mm	Active
RA8900CE*	10 PIN Ceramic	Active

Frequency Tolerance:	
RA-8581SA*	B=5+/-23PPM
RTC-8564JE	B=5+/-23PPM
RTC-8564NB	B=5+/-23PPM
RX8010SA	B=5+/-23PPM
RX4803SA RA4803SA* RX8803SA	UA= +/-3.4PPM -40°C to 85°C UB= +/-5.0PPM -40°C to 85°C UC=+/- 5PPM -30°C to 70°C AA=5+/-5PPM 25°C
RX8900SA RA8900SA* and RX8900CE RA8900CE*	UA=+/-3.4PPM -40°C to 85°C UB=+/-5PPM -40°C to 85°C UC=+/-5PPM -30°C to 70°C

Tape & Reel Qty  
SOP Package Type Only  
 B: Bulk  
 0: 1000 pcs. per reel

Blank : CE Package  
 RX8010SJ: PURE SN  
 RA4803SA: PURE SN  
 RX8803SA: PURE SN  
 RX8900SA: PURE SN  
 RA-8581SA: ROHS or PURE SN  
 RTC-8564JE: ROHS  
 RTC-8564NB: ROHS or PURE SN

Note:

Model P/N in RED font = DISCONTINUED

\*Automotive AEC-Q200

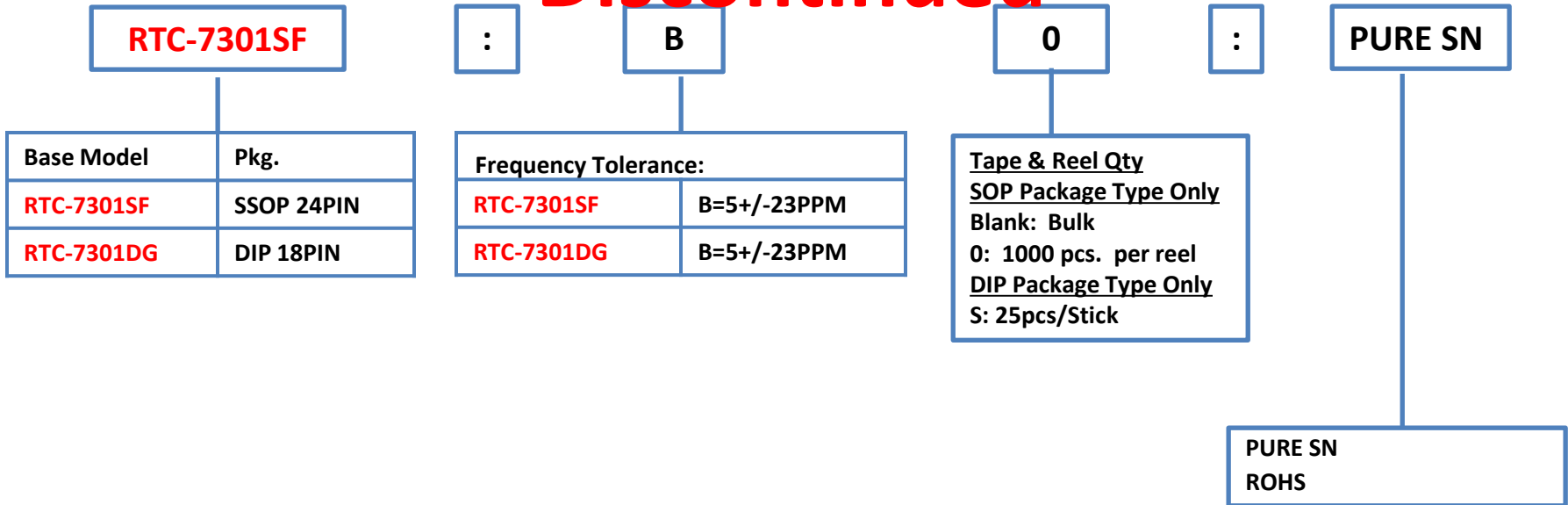


# Product Configuration System



## Real Time Clocks – Parallel 4-bit

**Discontinued**



Note:

Model P/N in RED font = DISCONTINUED

# Product Configuration System



## Real Time Clocks – Parallel 4-bit

# Discontinued

**RTC-72423A**

Base Model	Pkg.	Freq. Tolerance
<b>RTC-62421A</b>	DIP 18PIN	+/-10ppm
<b>RTC-62421B</b>	DIP 18PIN	+/-50ppm
<b>RTC-72421A</b>	DIP 18PIN	+/-10ppm
<b>RTC-72421B</b>	DIP 18PIN	+/-50ppm
<b>RTC-72423A</b>	SSOP 24PIN	+/-20ppm
<b>RTC-72423B</b>	SSOP 24PIN	+/-50ppm

0

:

PURE SN

Tape & Reel Qty  
SOP Package Type Only  
 Blank: Bulk  
 0: 1000 pcs. per reel  
DIP Package Type Only  
 S: 25pcs/Stick

PURE SN  
 ROHS



Note:  
 Model P/N in RED font = DISCONTINUED

# Product Configuration System



## Real Time Clock Modules – I<sup>2</sup>C-Bus and SPI

