

# Product Configuration Guide

# Programmable Oscillators



**EPSON**

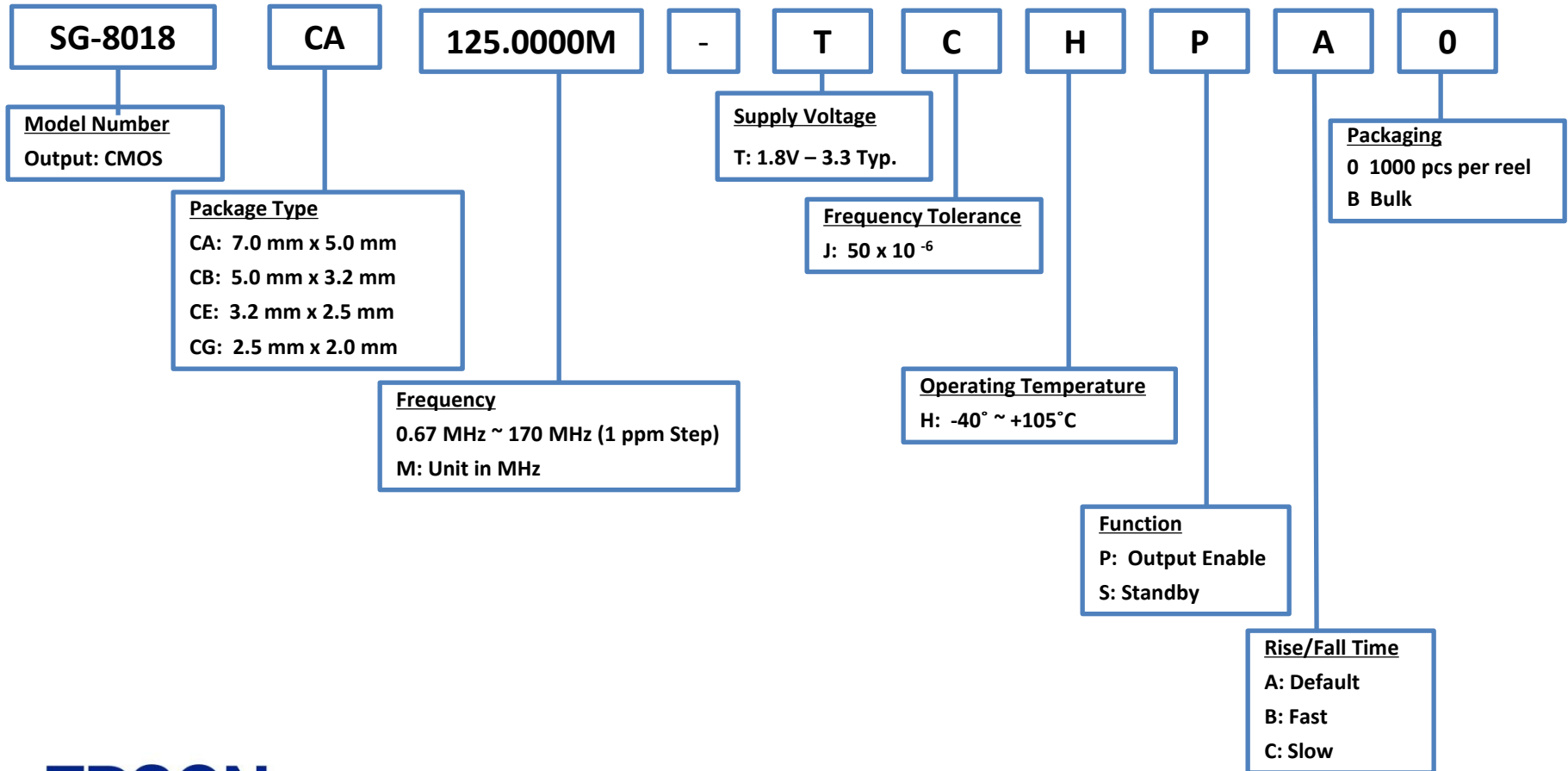
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# Product Configuration System



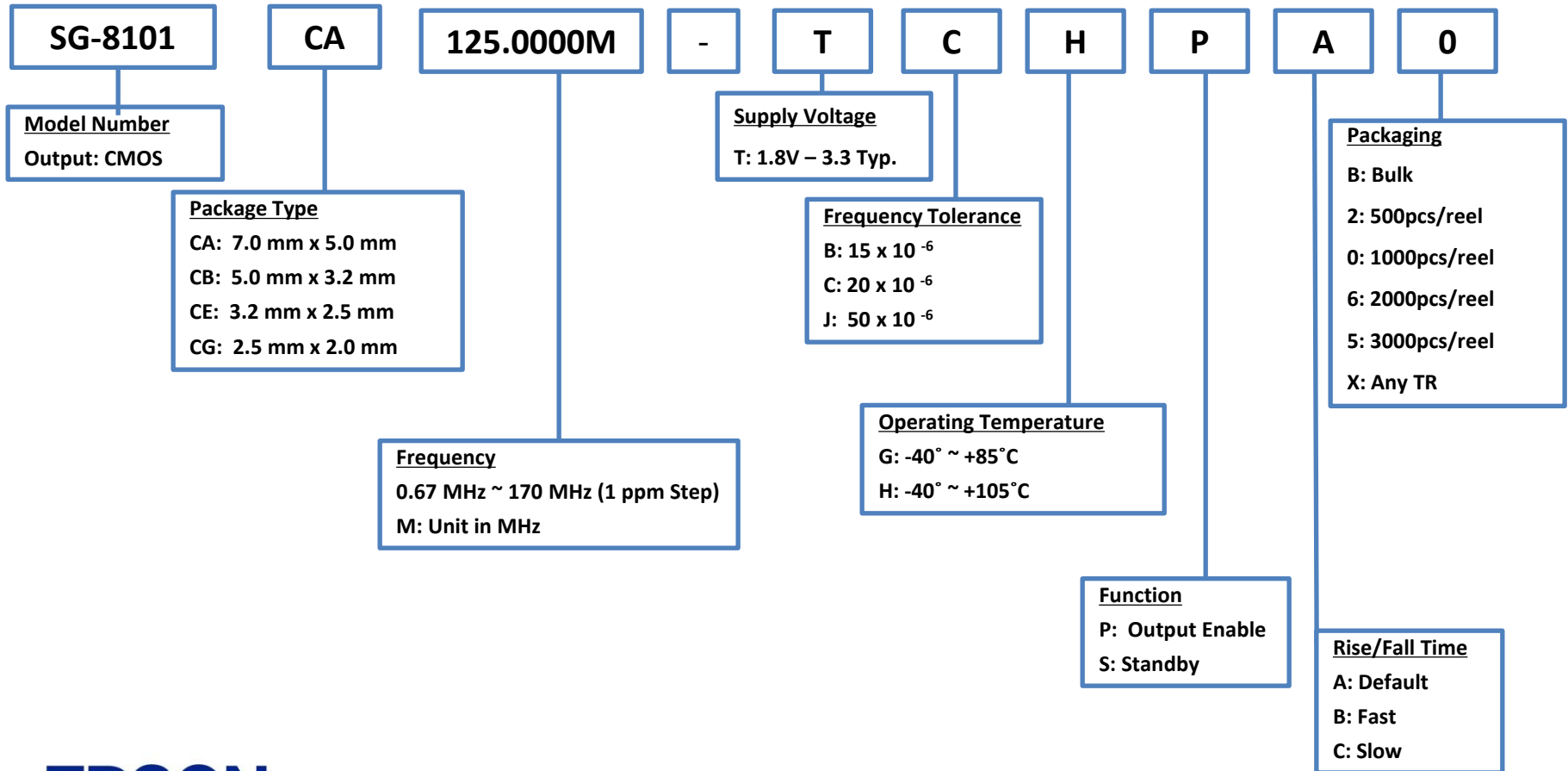
## Crystal Oscillator (SPXO) – Programmable



# Product Configuration System



## Crystal Oscillator (SPXO) – Programmable, High Performance



**NOTE:**  
See next page for available combinations

# Product Configuration System



## Crystal Oscillator (SPXO) – Programmable, High Performance

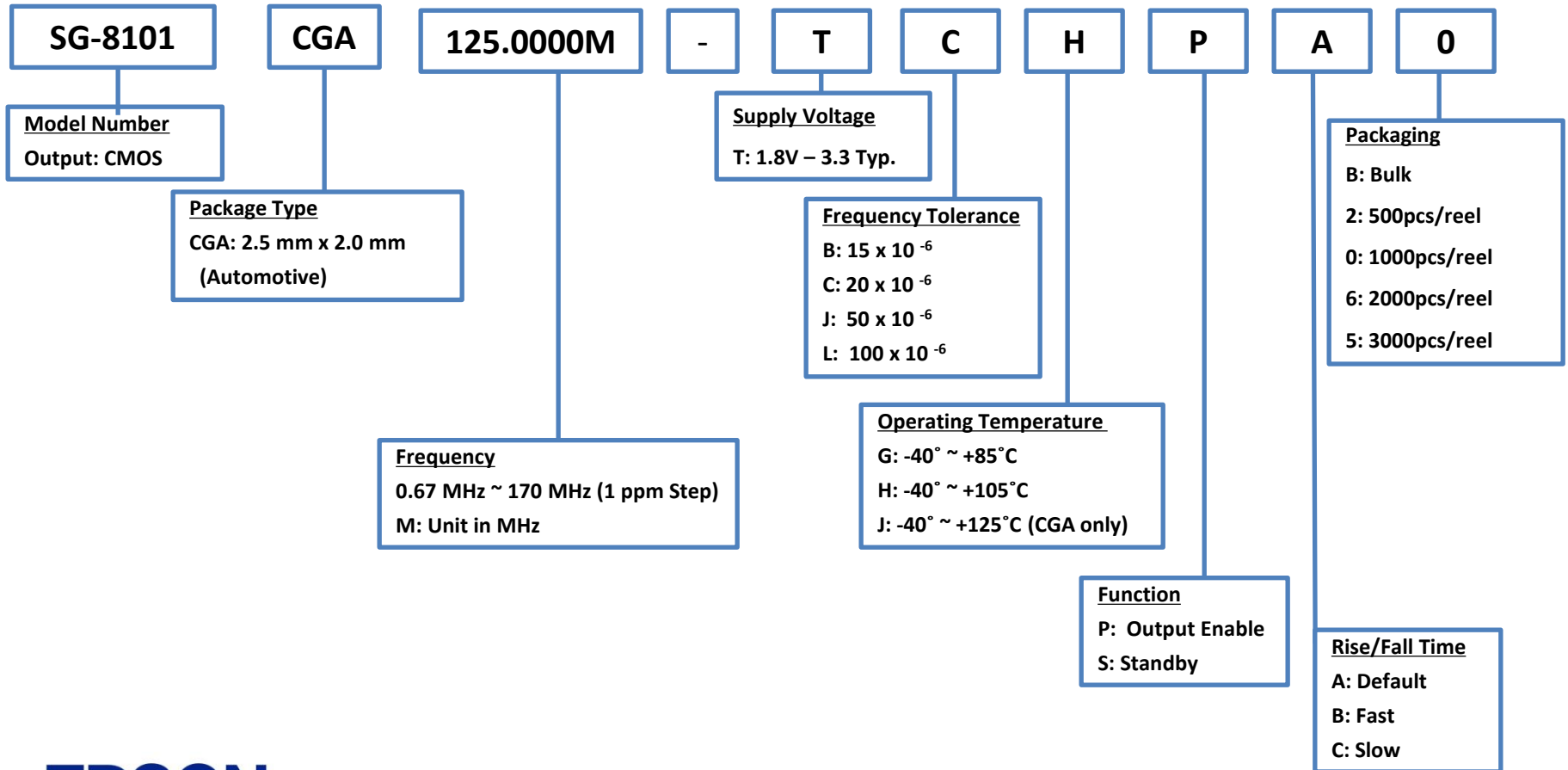
### SG-8101 Available Combinations

Available combination		CA: 7.0 mm x 5.0 mm			CB: 5.0 mm x 3.2 mm			CE: 3.2 mm x 2.5 mm			CG: 2.5 mm x 2.0 mm		
Frequency tolerance		B: 15 x 10 <sup>-6</sup>	C: 20 x 10 <sup>-6</sup>	J: 50 x 10 <sup>-6</sup>	B: 15 x 10 <sup>-6</sup>	C: 20 x 10 <sup>-6</sup>	J: 50 x 10 <sup>-6</sup>	B: 15 x 10 <sup>-6</sup>	C: 20 x 10 <sup>-6</sup>	J: 50 x 10 <sup>-6</sup>	B: 15 x 10 <sup>-6</sup>	C: 20 x 10 <sup>-6</sup>	J: 50 x 10 <sup>-6</sup>
Operating temperature	G: -40 °C ~ +85 °C	✓			✓			✓			✓		
	H: -40 °C ~ +105 °C		✓	✓		✓	✓		✓	✓		✓	✓

# Product Configuration System



## Crystal Oscillator (SPXO) – Programmable, High Performance, Automotive (AECQ100)



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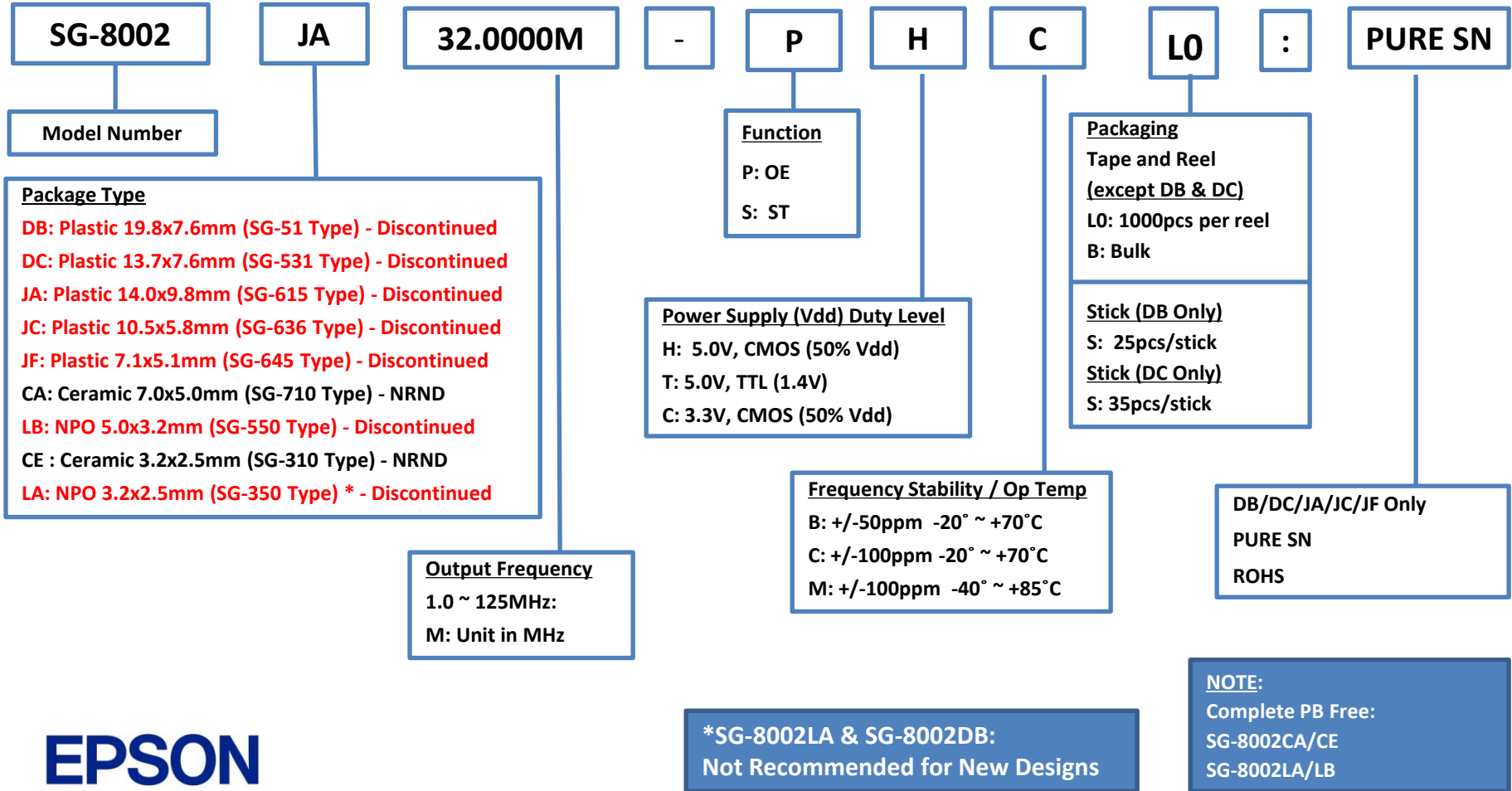
### NOTE:

For Automotive SG-8101CGA, stability “JJ” (+/-50ppm -40/125C) and “LJ” (+/-100ppm -40/125C) are available. See previous slide for other possible combination.

# Product Configuration System



## Crystal Oscillators - Programmable

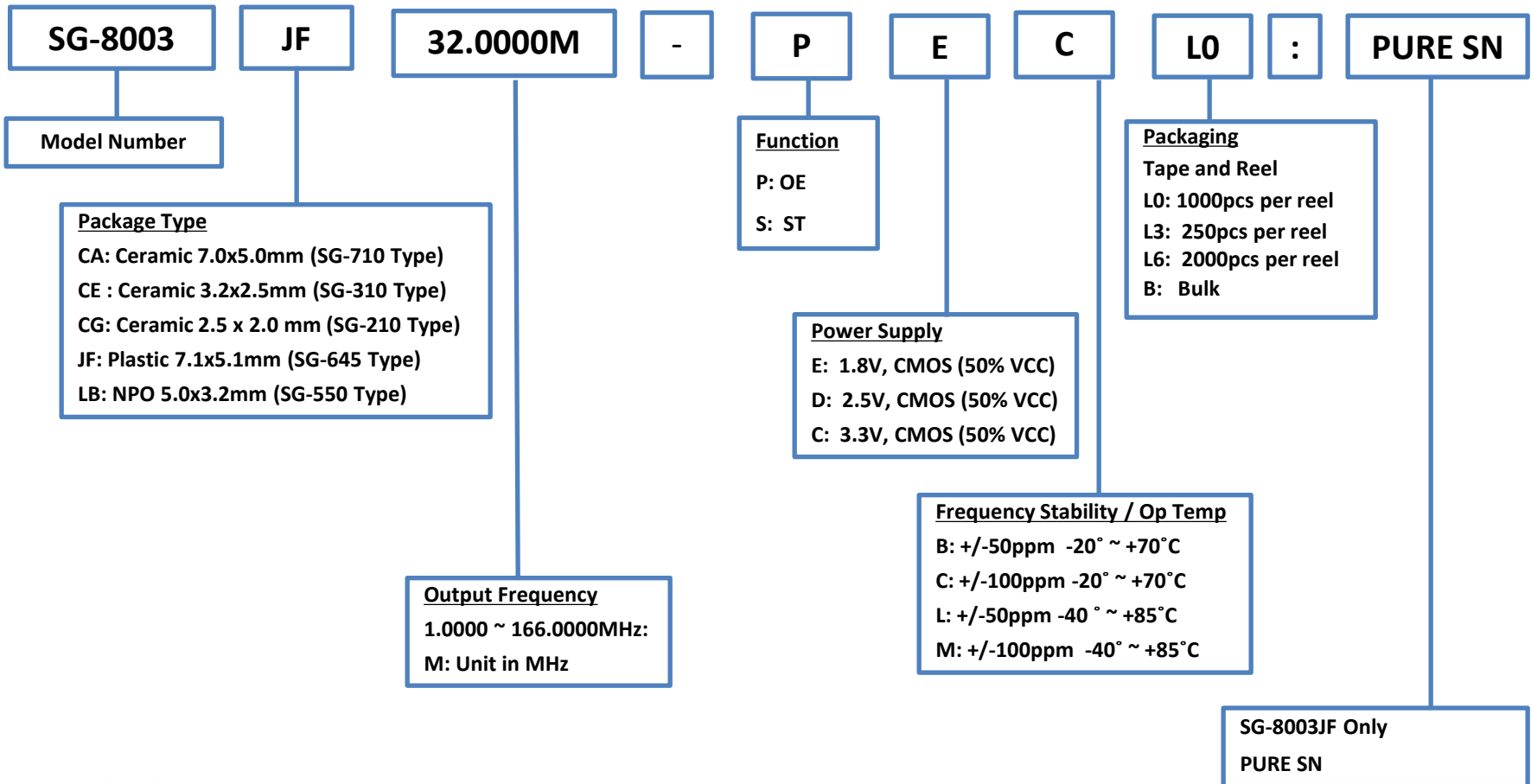


# Product Configuration System



## Crystal Oscillators - Programmable

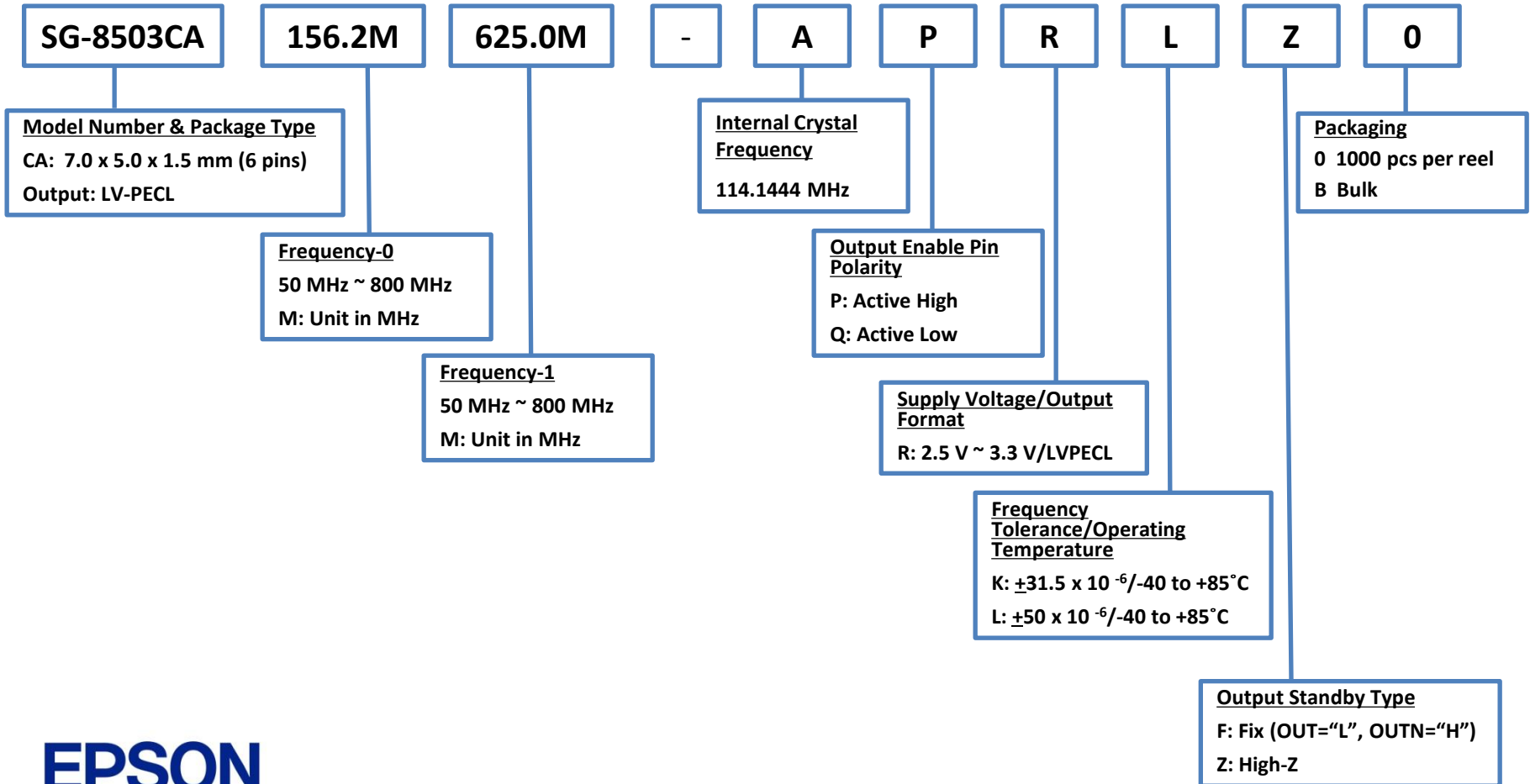
**Discontinued**



# Product Configuration System



## Dual Selectable Crystal Oscillator (SPXO) Programmable (Dual Frequencies Available)

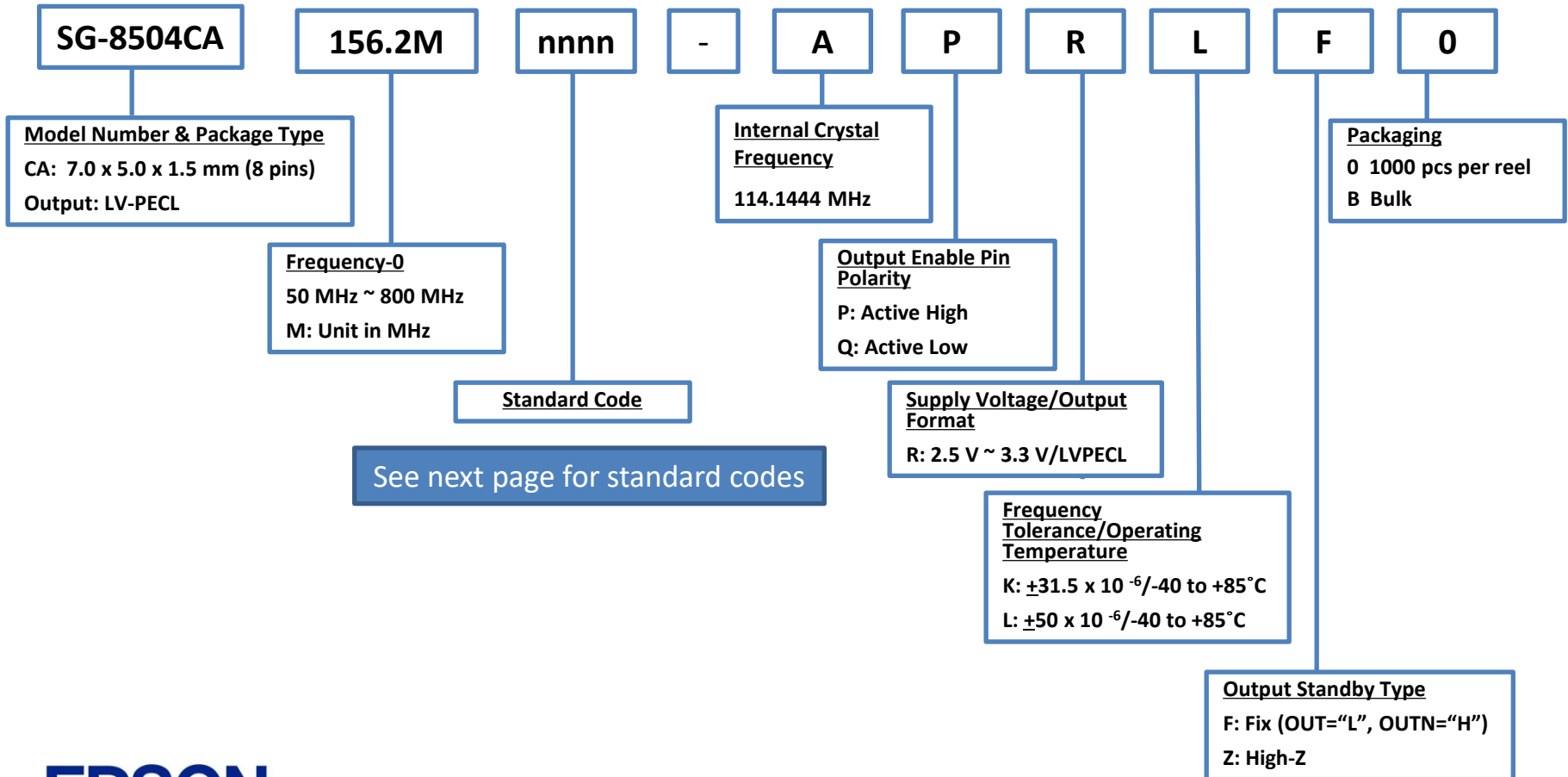




# Product Configuration System



## Quad Selectable Crystal Oscillator (SPXO) Programmable (Quad Frequencies Available)



# Product Configuration System



## Quad Selectable Crystal Oscillator (SPXO) Programmable (Quad Frequencies Available)

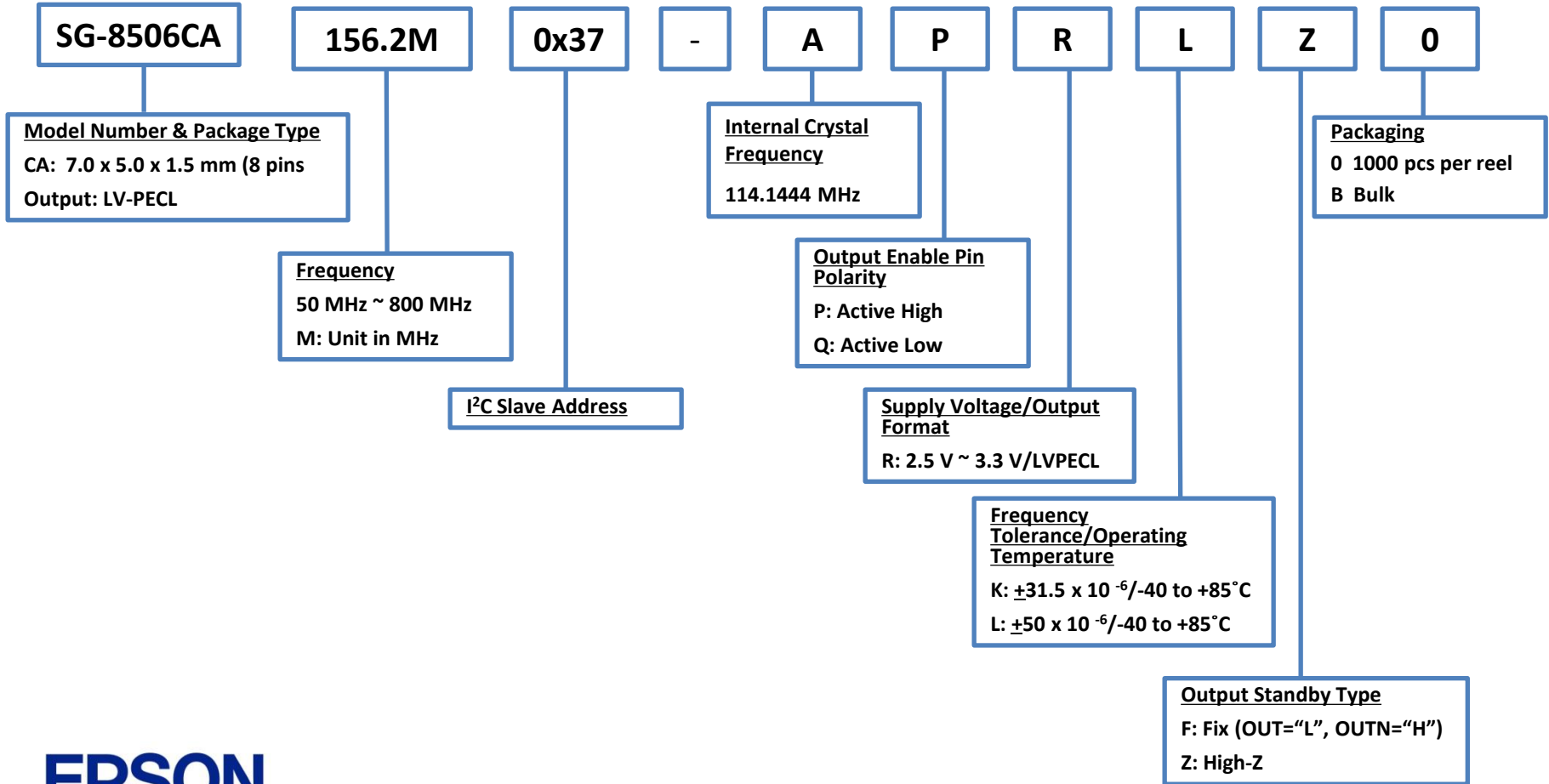
### SG-8504 Standard Codes

<b>Standard Code (‘nnnn’)</b>	<b>Frequency 0</b>	<b>Frequency 1</b>	<b>Frequency 2</b>	<b>Frequency 3</b>
<b>0007</b>	<b>75.00000</b>	<b>100.00000</b>	<b>150.00000</b>	<b>250.00000</b>
<b>0008</b>	<b>62.50000</b>	<b>125.00000</b>	<b>156.25000</b>	<b>250.00000</b>
<b>0009</b>	<b>106.25000</b>	<b>159.37500</b>	<b>212.50000</b>	<b>425.00000</b>
<b>0010</b>	<b>100.00000</b>	<b>133.33333</b>	<b>166.66666</b>	<b>200.00000</b>
<b>0011</b>	<b>100.00000</b>	<b>125.00000</b>	<b>156.25000</b>	<b>312.50000</b>

# Product Configuration System



## User Programmable I<sup>2</sup>C Crystal Oscillator (SPXO)

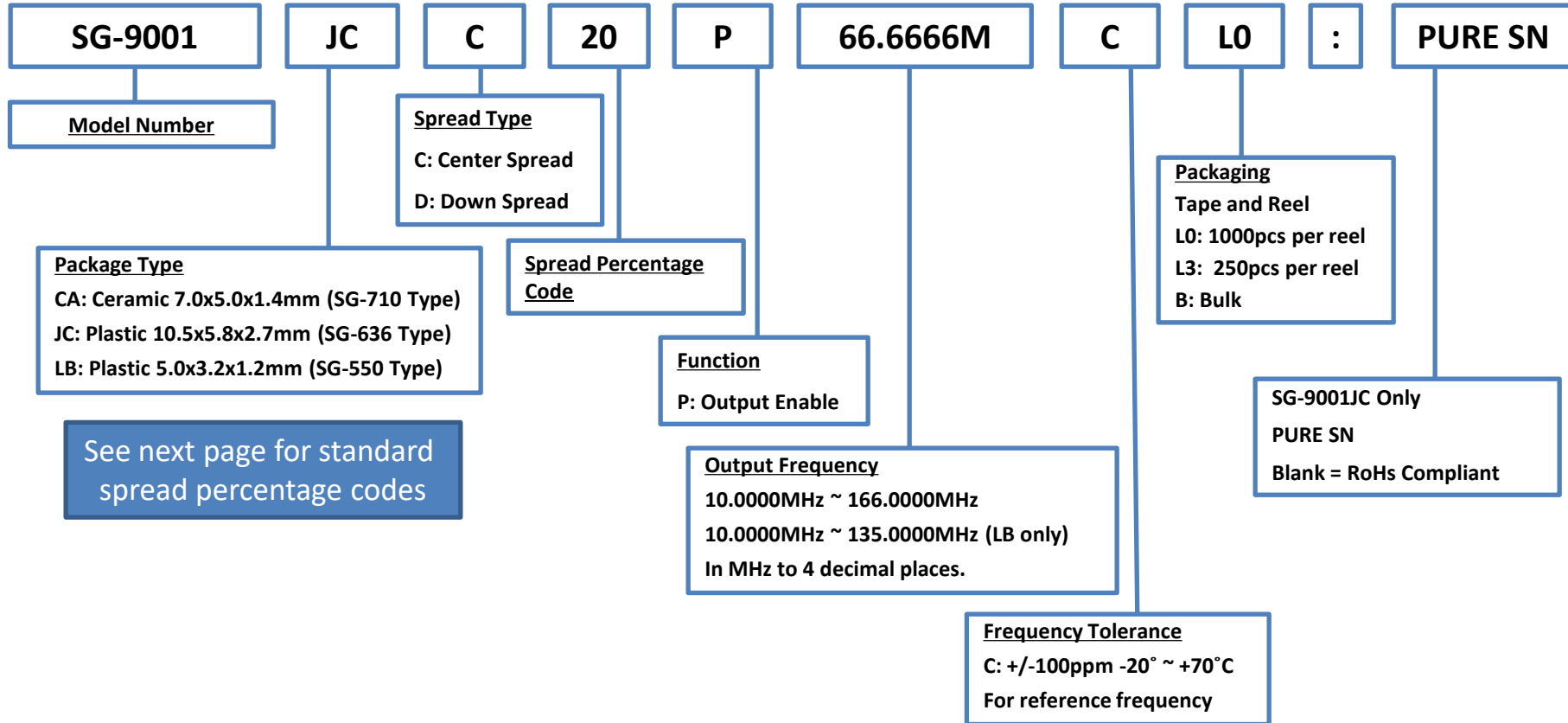


# Product Configuration System



## Crystal Oscillators - Spread Spectrum

# Discontinued



**NOTES:**  
SG-9001CA & SG-9001LB: Complete PB FREE  
SG-9001JC: RoHS COMPLIANT

# Spread Rate Options

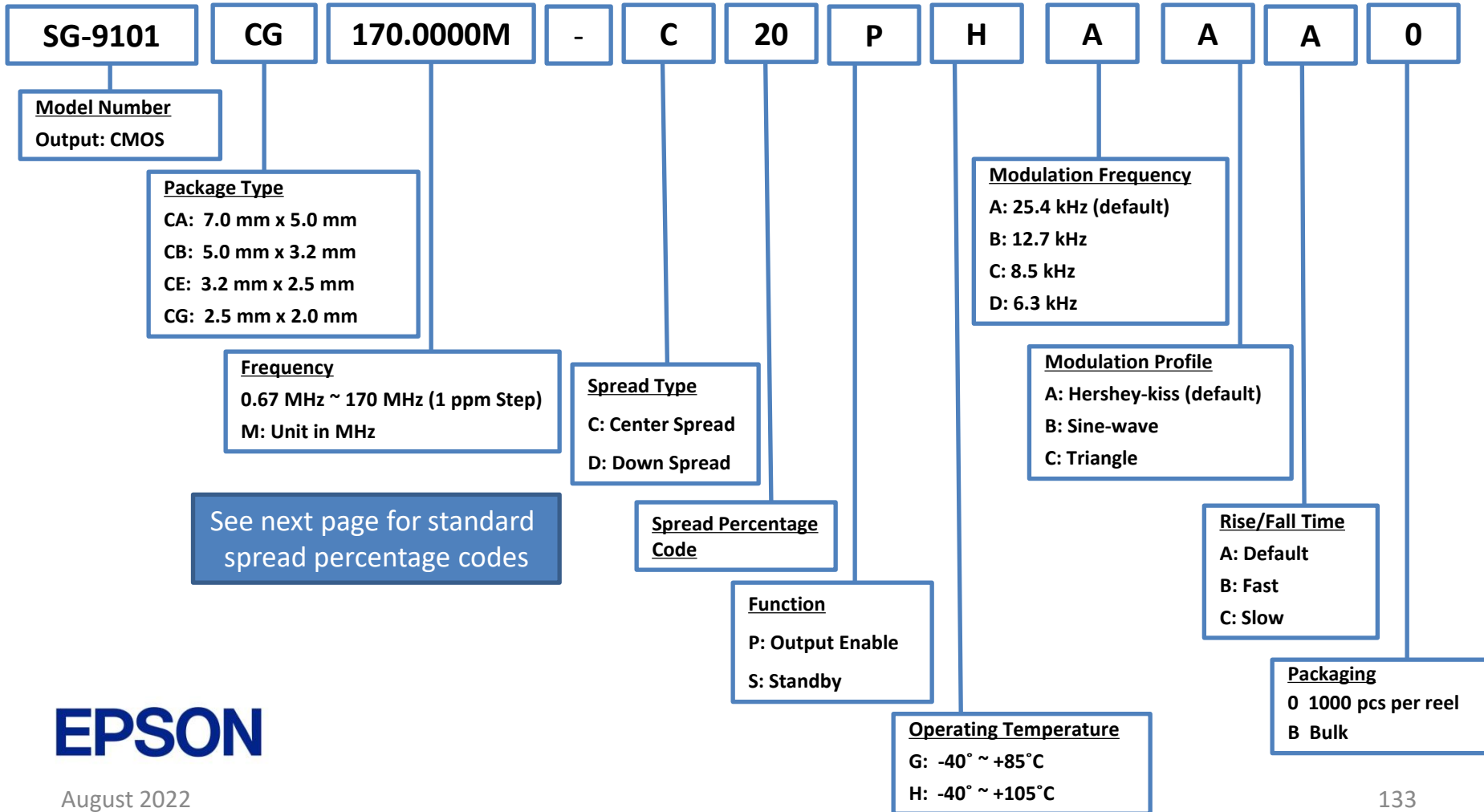
## SG-9001

Center Spread		Down Spread	
Product Configuration Code	Spread Rate %	Product Configuration Code	Spread Rate %
C02	+/- 0.25	D05	- 0.5
C05	+/- 0.5	D10	- 1.0
C07	+/- 0.75	D15	- 1.5
C10	+/- 1.0	D20	- 2.0
C15	+/- 1.5	D30	- 3.0
C20	+/- 2.0	D40	- 4.0

# Product Configuration System



## Crystal Oscillator (SPXO) – Programmable, Spread Spectrum



# Spread Rate Options

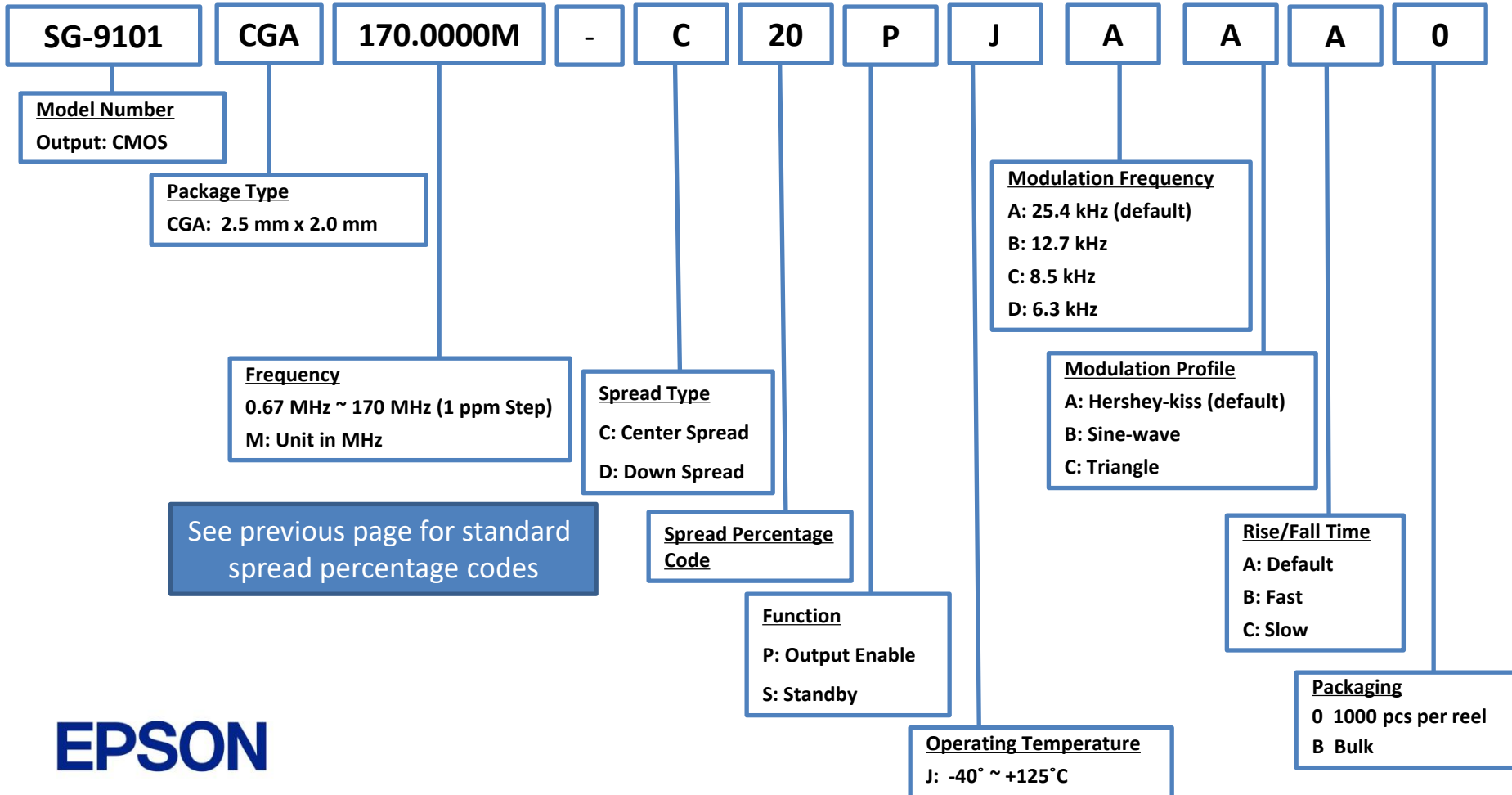
## SG-9101

Center Spread		Down Spread	
Product Configuration Code	Spread Rate %	Product Configuration Code	Spread Rate %
C02	+/- 0.25	D05	- 0.5
C05	+/- 0.5	D10	- 1.0
C07	+/- 0.75	D15	- 1.5
C10	+/- 1.0	D20	- 2.0
C15	+/- 1.5	D30	- 3.0
C20	+/- 2.0	D40	- 4.0

# Product Configuration System



## Crystal Oscillator (SPXO) – Programmable, Spread Spectrum, Automotive (AECQ100)

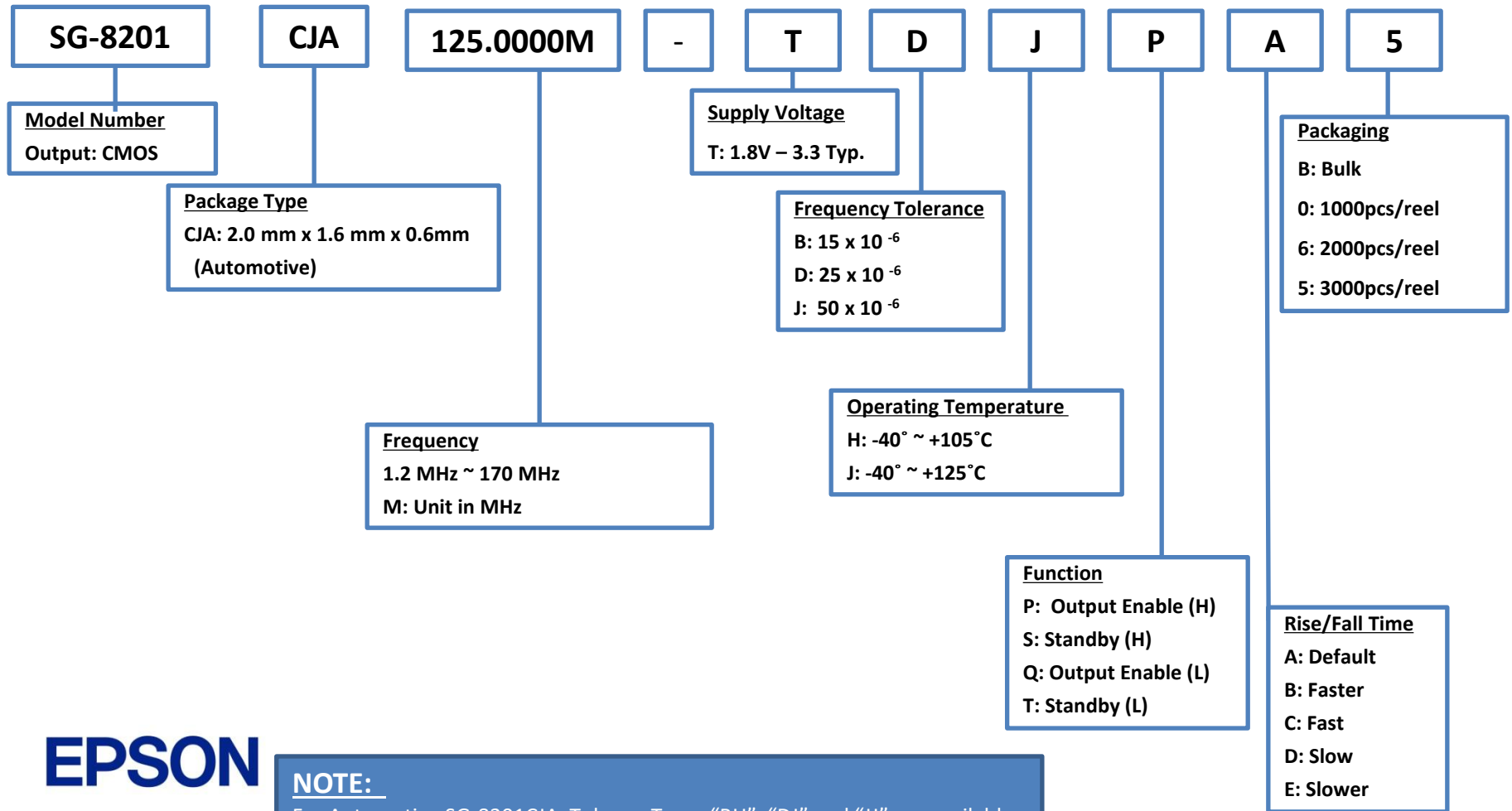




# Product Configuration System



## Crystal Oscillator (SPXO) – Programmable, Low Jitter, Automotive (AEC-Q100)



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### NOTE:

For Automotive SG-8201CJA, Tol over Temp “BH”, “DJ” and “JJ” are available. See previous slide for other possible combination.