

Product Configuration Guide

Programmable Oscillators



EPSON

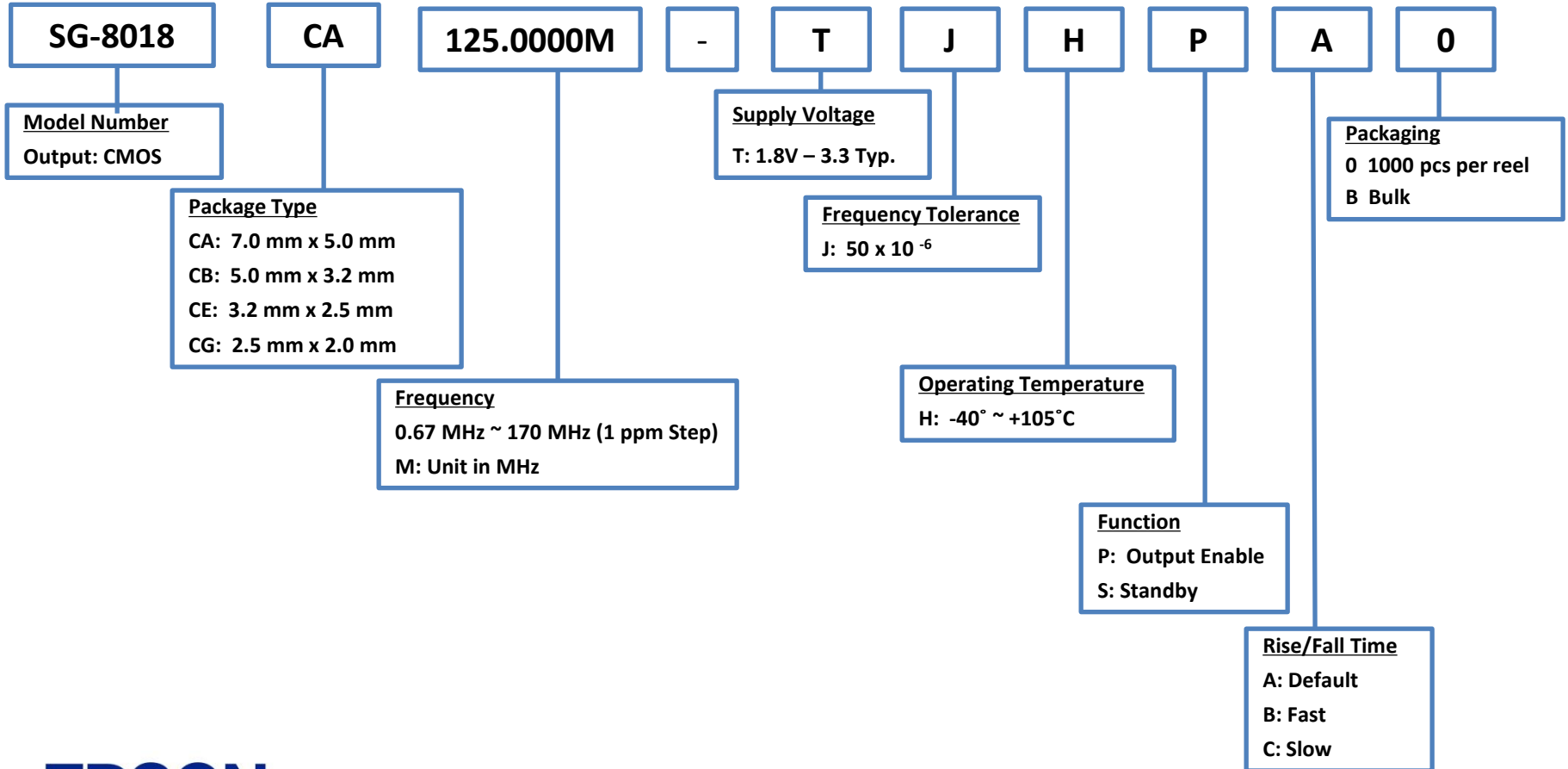
August 2024

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Product Configuration System



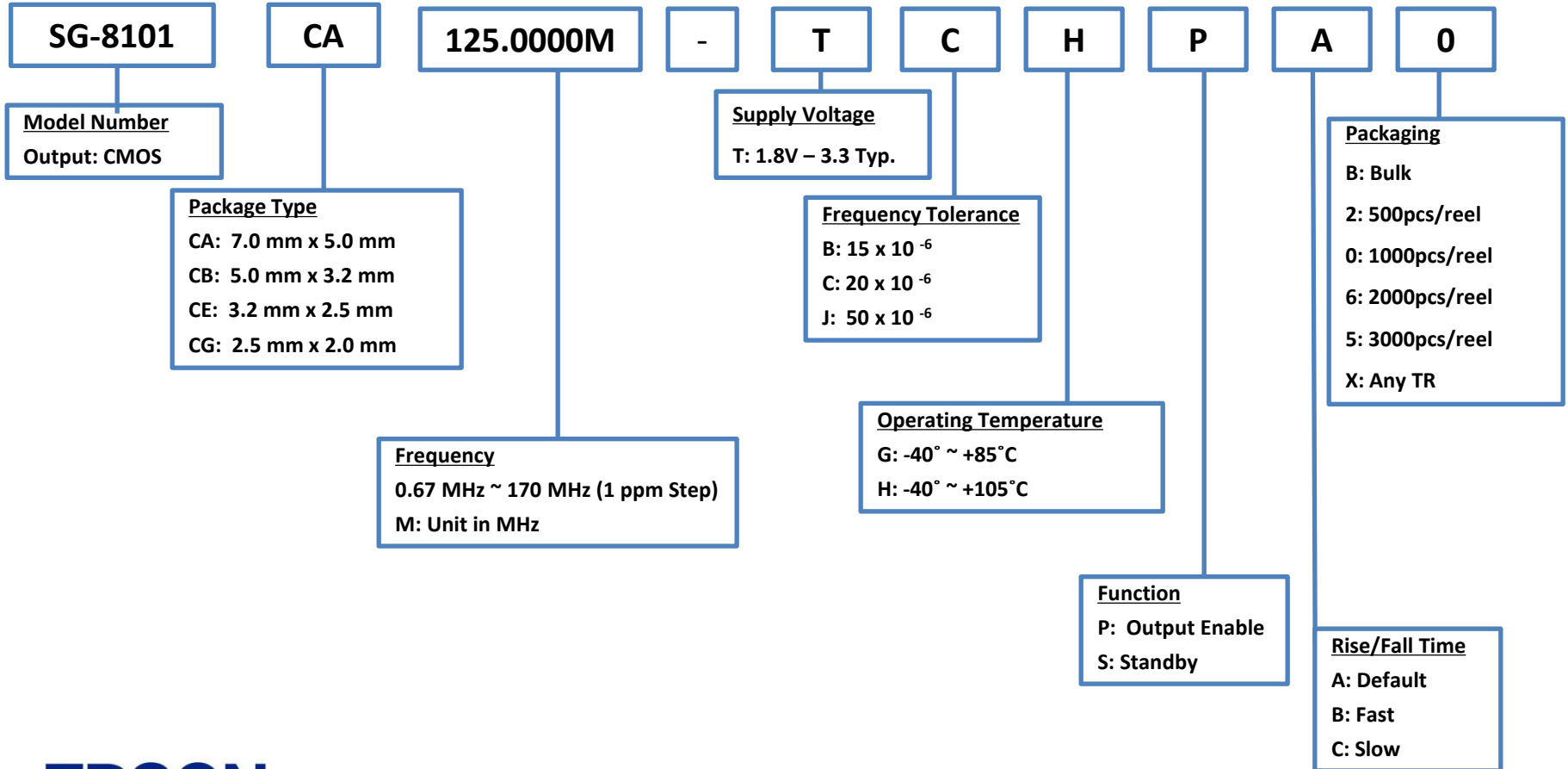
Crystal Oscillator (SPXO) – Programmable



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

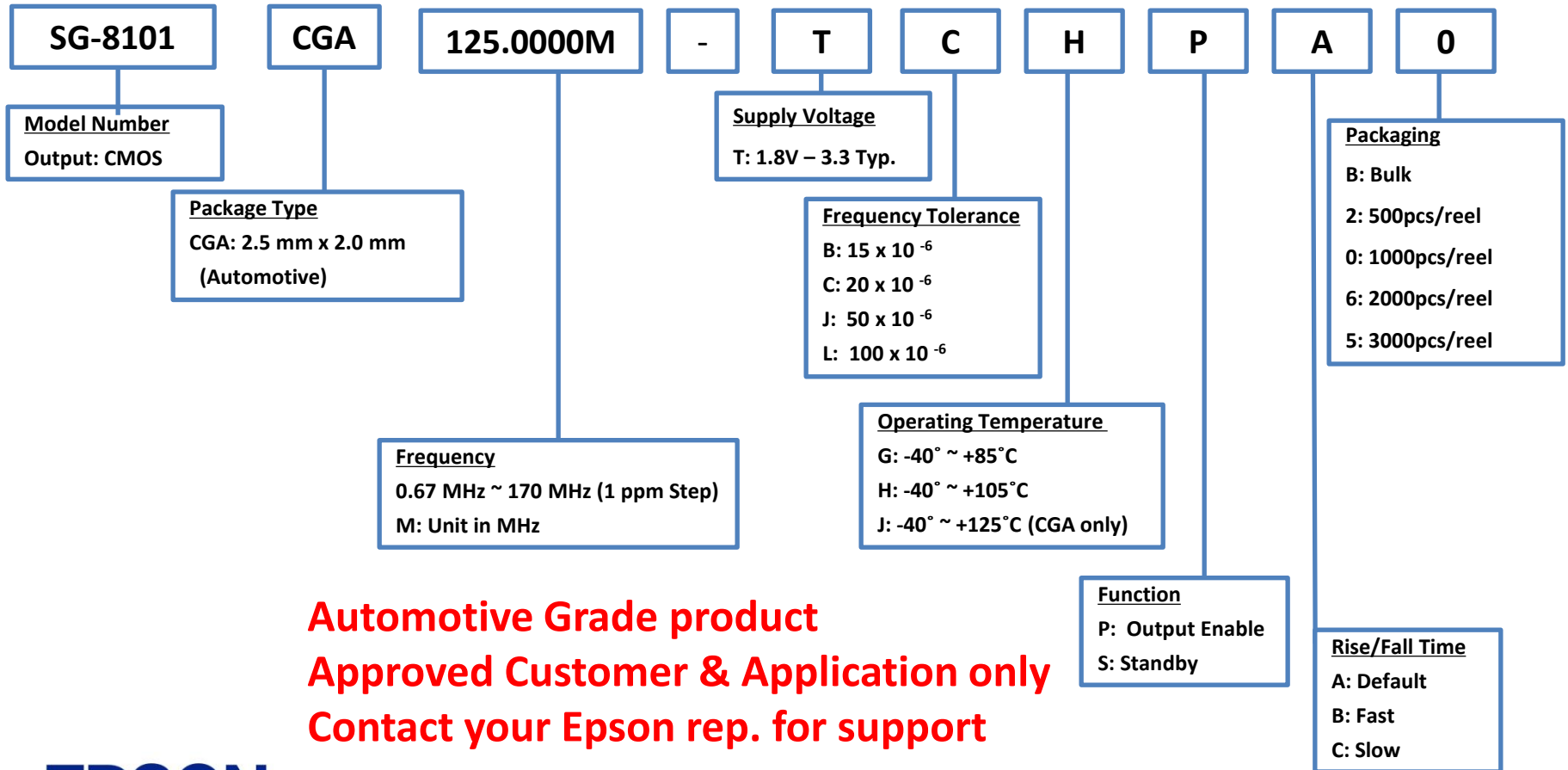
SG-8101 Available Combinations

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 ⁻⁶	C: 20 x 10 ⁻⁶	J: 50 x 10 ⁻⁶	B: 15 x 10 ⁻⁶	C: 20 x 10 ⁻⁶	J: 50 x 10 ⁻⁶	B: 15 x 10 ⁻⁶	C: 20 x 10 ⁻⁶	J: 50 x 10 ⁻⁶	B: 15 x 10 ⁻⁶	C: 20 x 10 ⁻⁶	J: 50 x 10 ⁻⁶
Operating temperature	G: -40 °C ~ +85 °C	✓			✓			✓			✓		
	H: -40 °C ~ +105 °C		✓	✓		✓	✓		✓	✓		✓	✓

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



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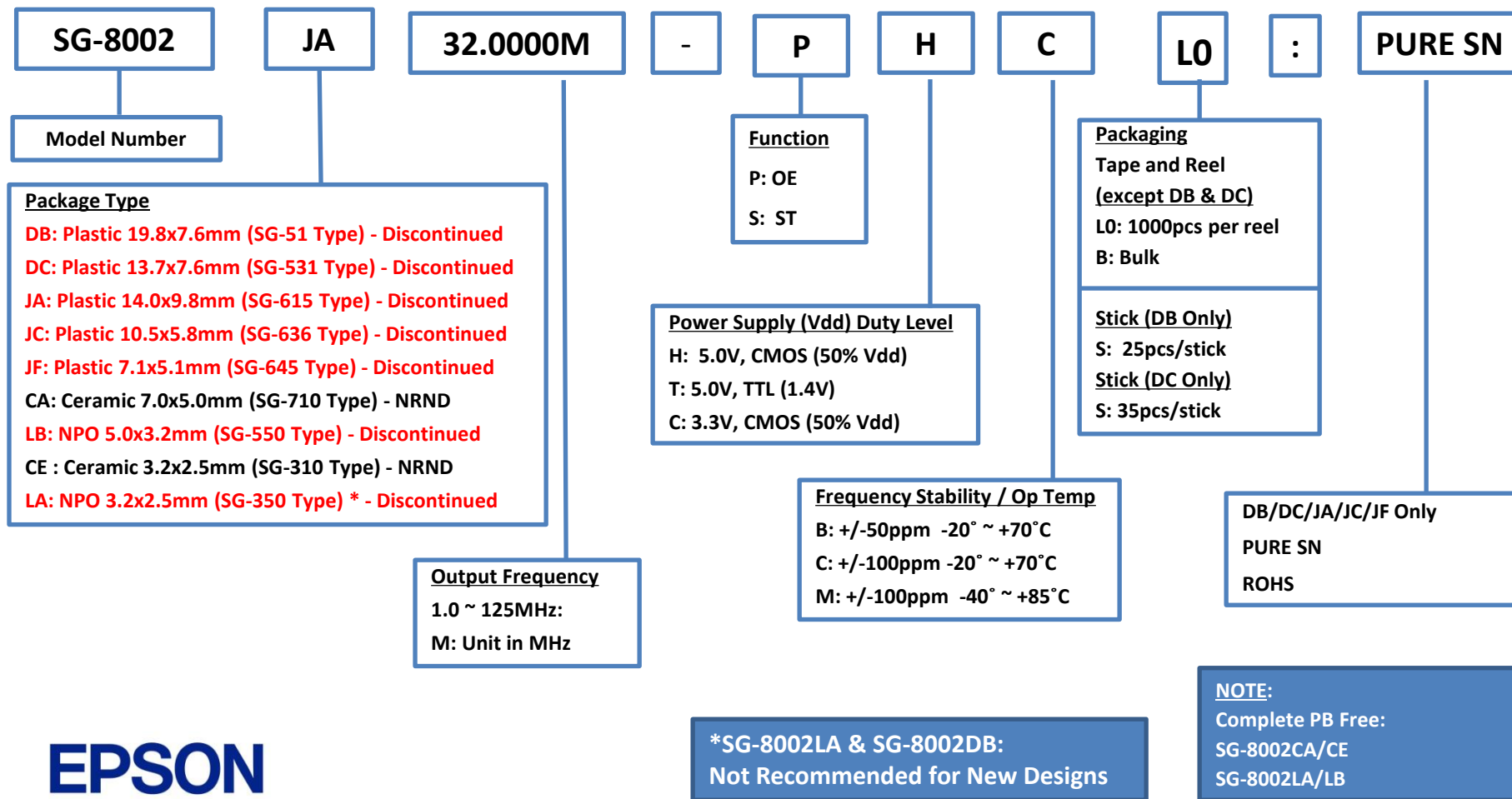
NOTE:

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

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Crystal Oscillators - Programmable

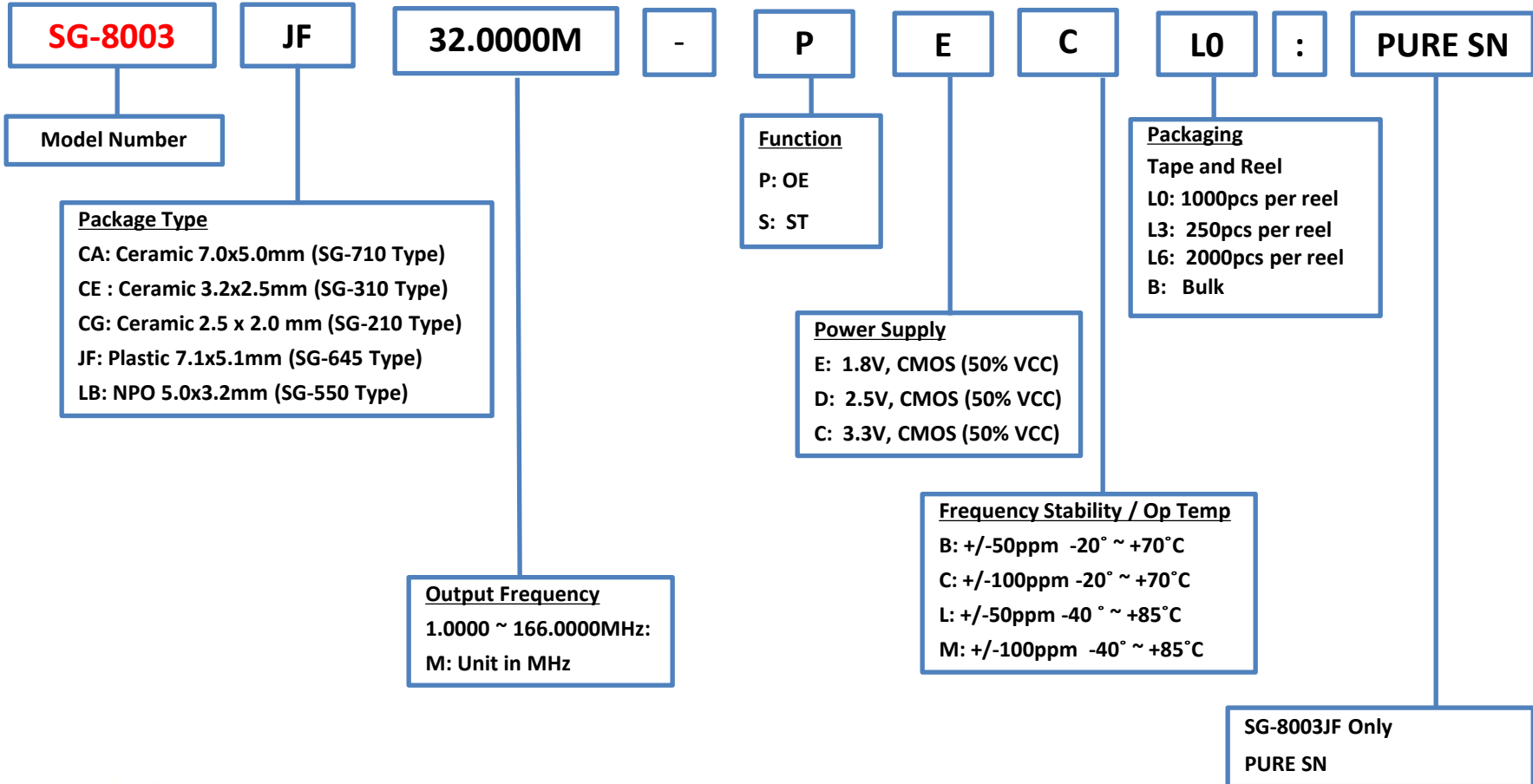


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Crystal Oscillators - Programmable

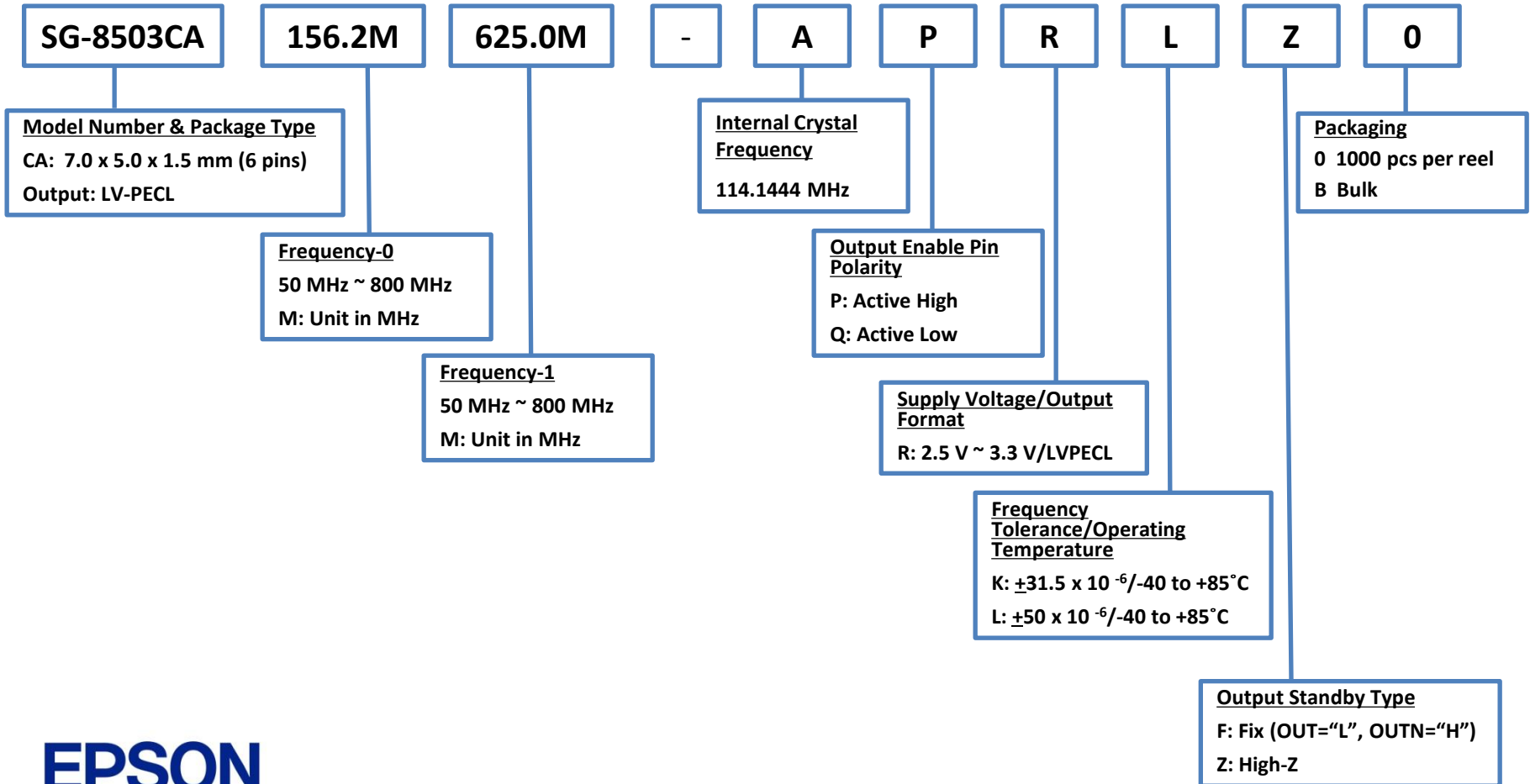
Discontinued



Product Configuration System



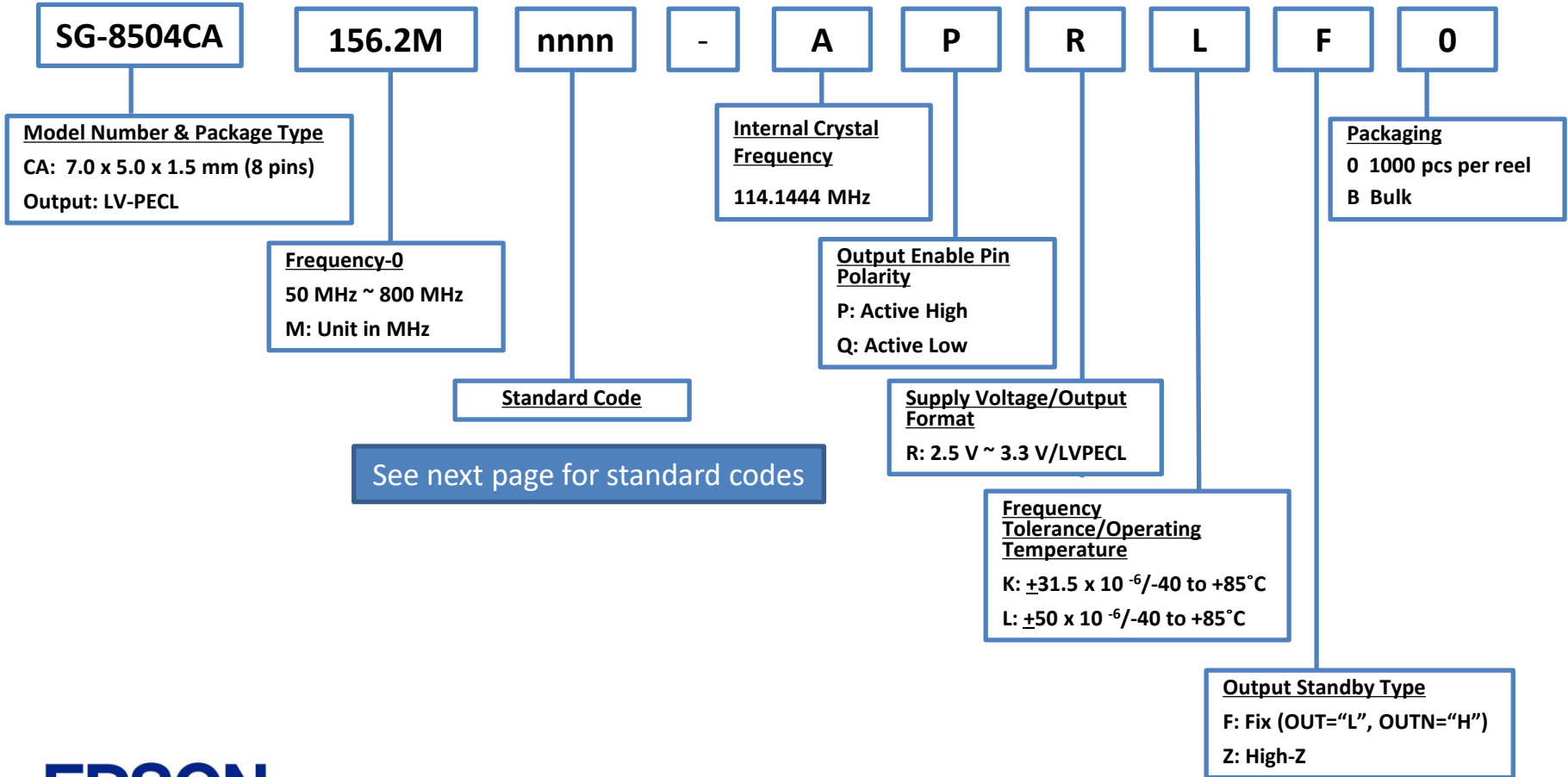
Dual Selectable Crystal Oscillator (SPXO) Programmable (Dual Frequencies Available)



Product Configuration System



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



Product Configuration System



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

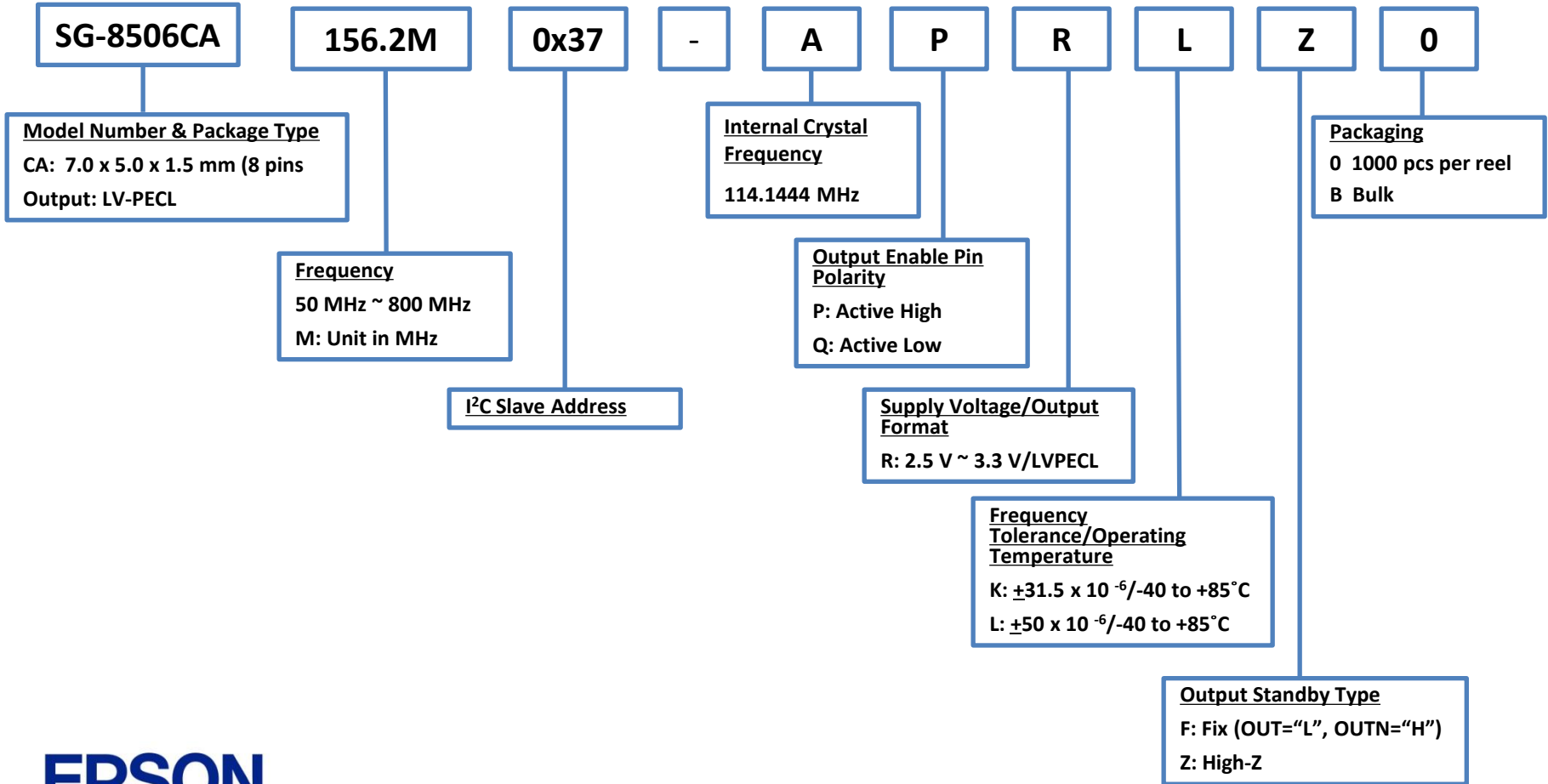
SG-8504 Standard Codes

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

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User Programmable I²C Crystal Oscillator (SPXO)

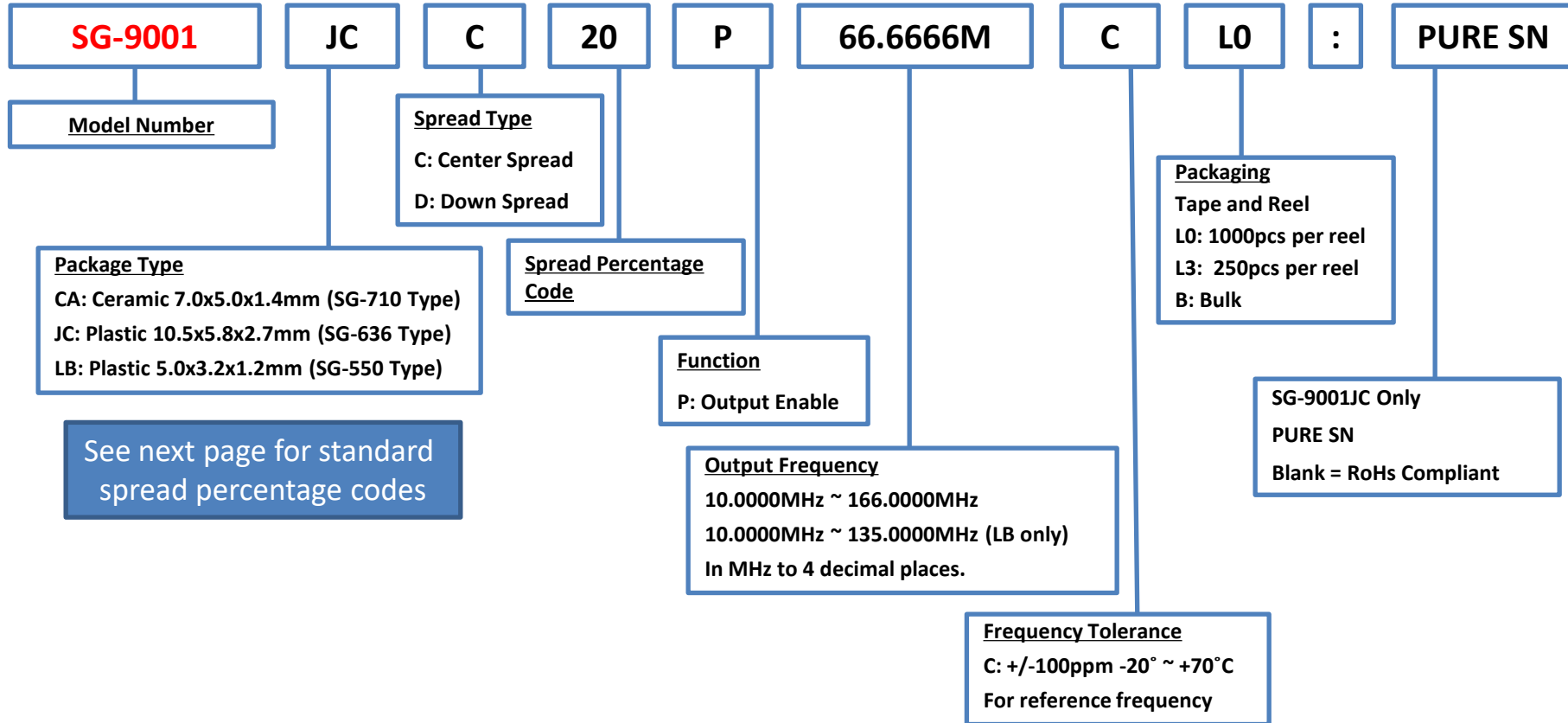


Product Configuration System



Crystal Oscillators - Spread Spectrum

Discontinued



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NOTES:

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

Spread Rate Options

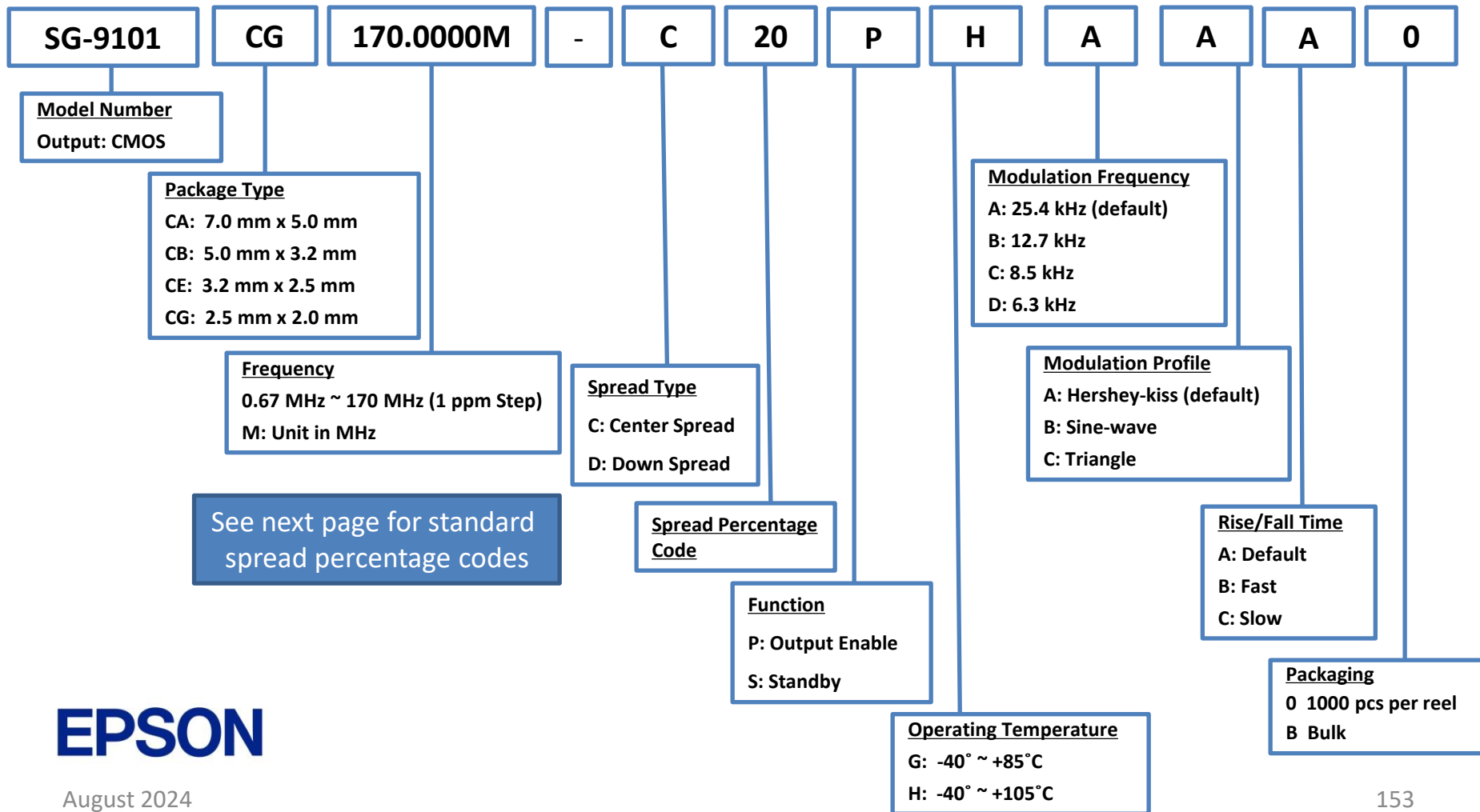
SG-9001

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

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Crystal Oscillator (SPXO) – Programmable, Spread Spectrum



Spread Rate Options

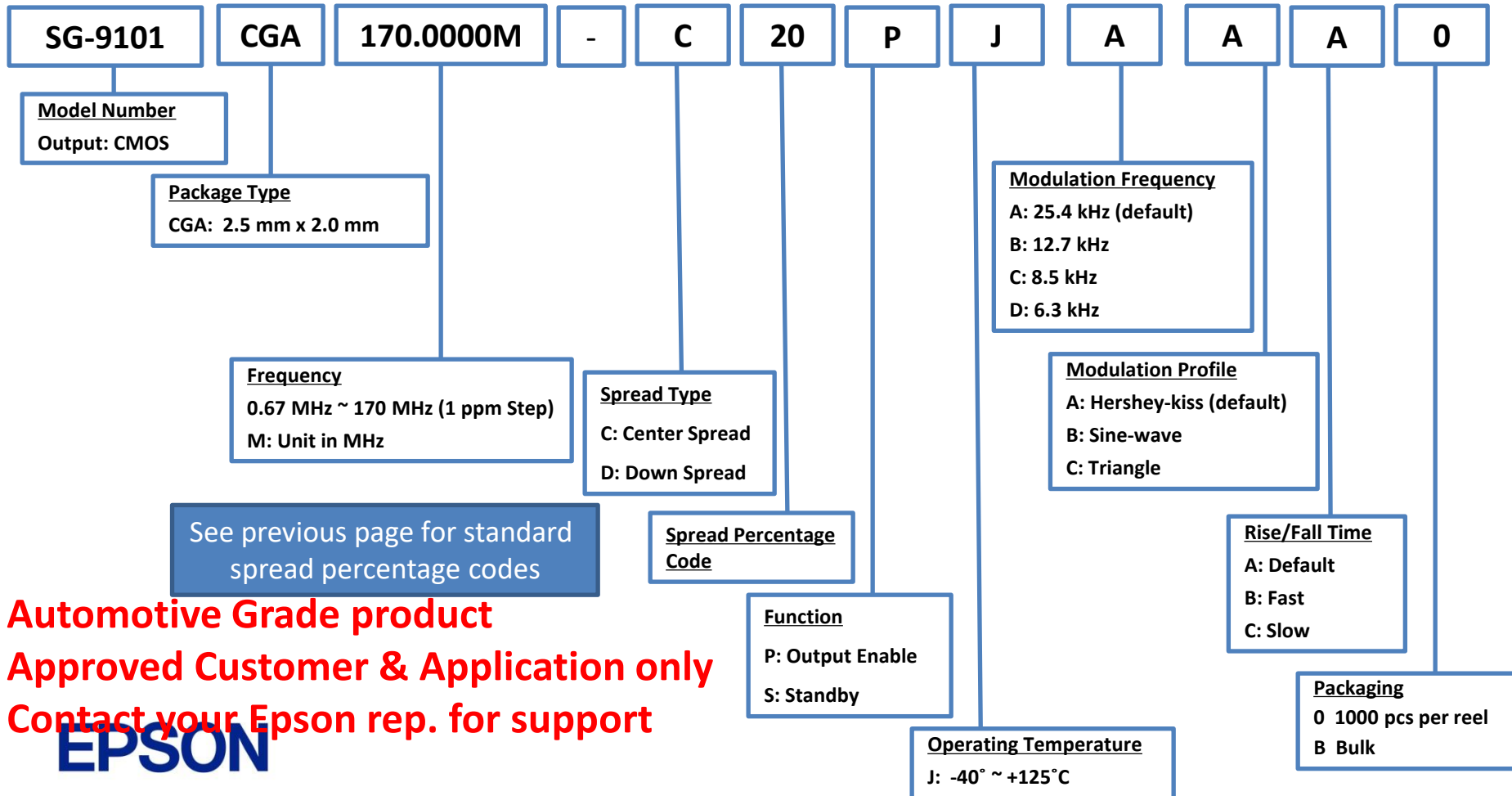
SG-9101

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

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



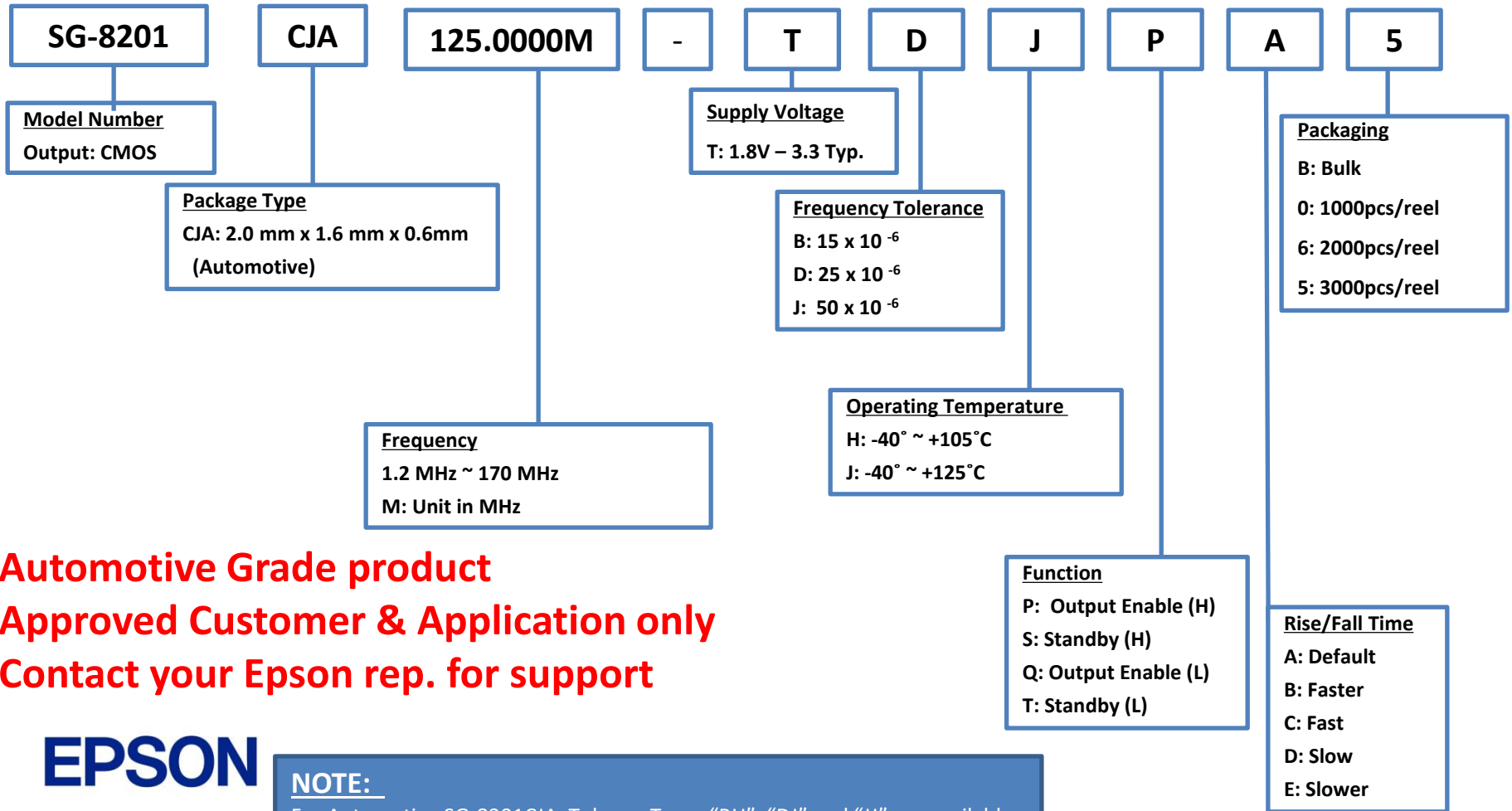
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Product Configuration System



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



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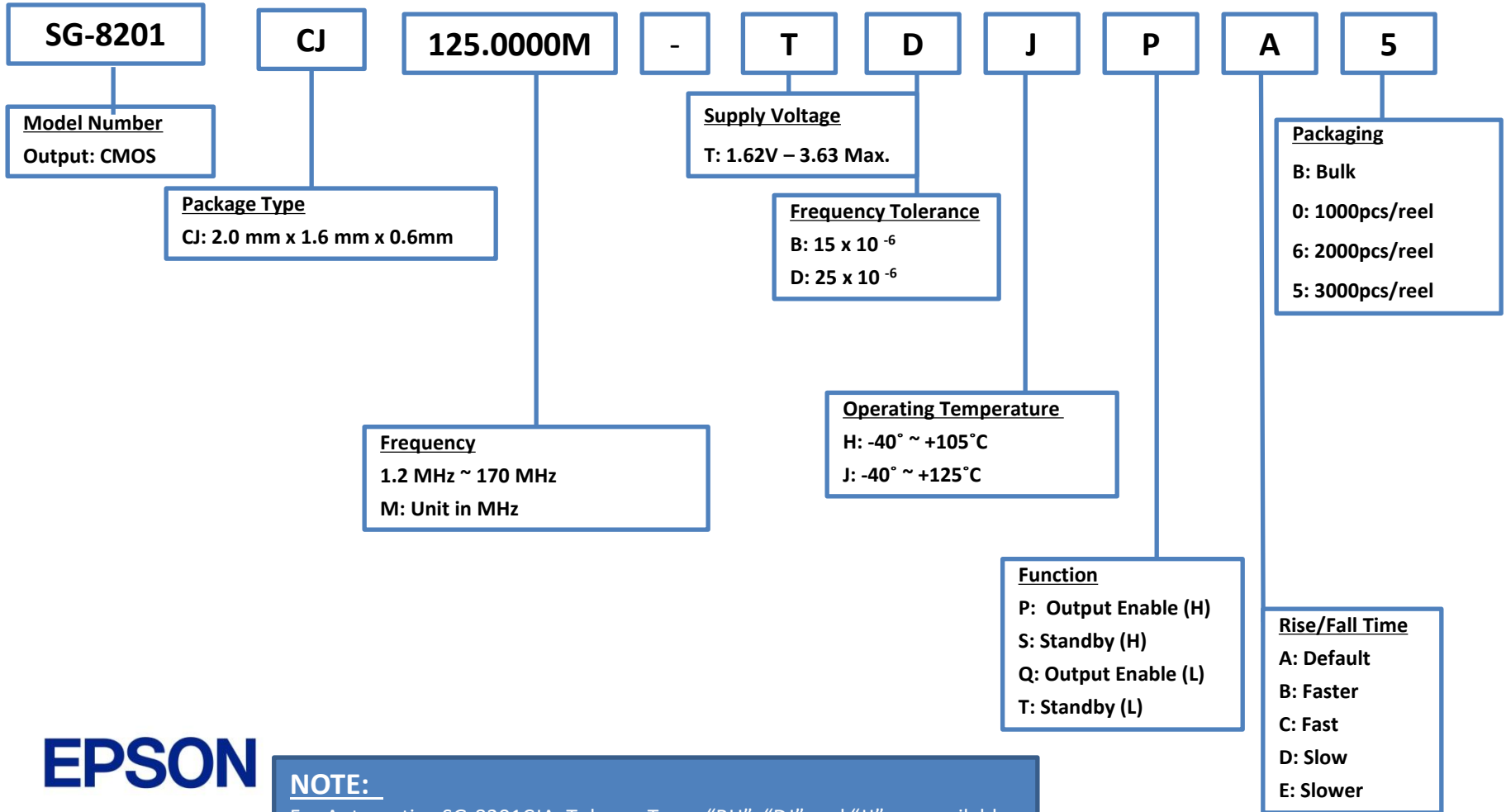
NOTE:

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

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Crystal Oscillator (SPXO) – Programmable & Low Jitter



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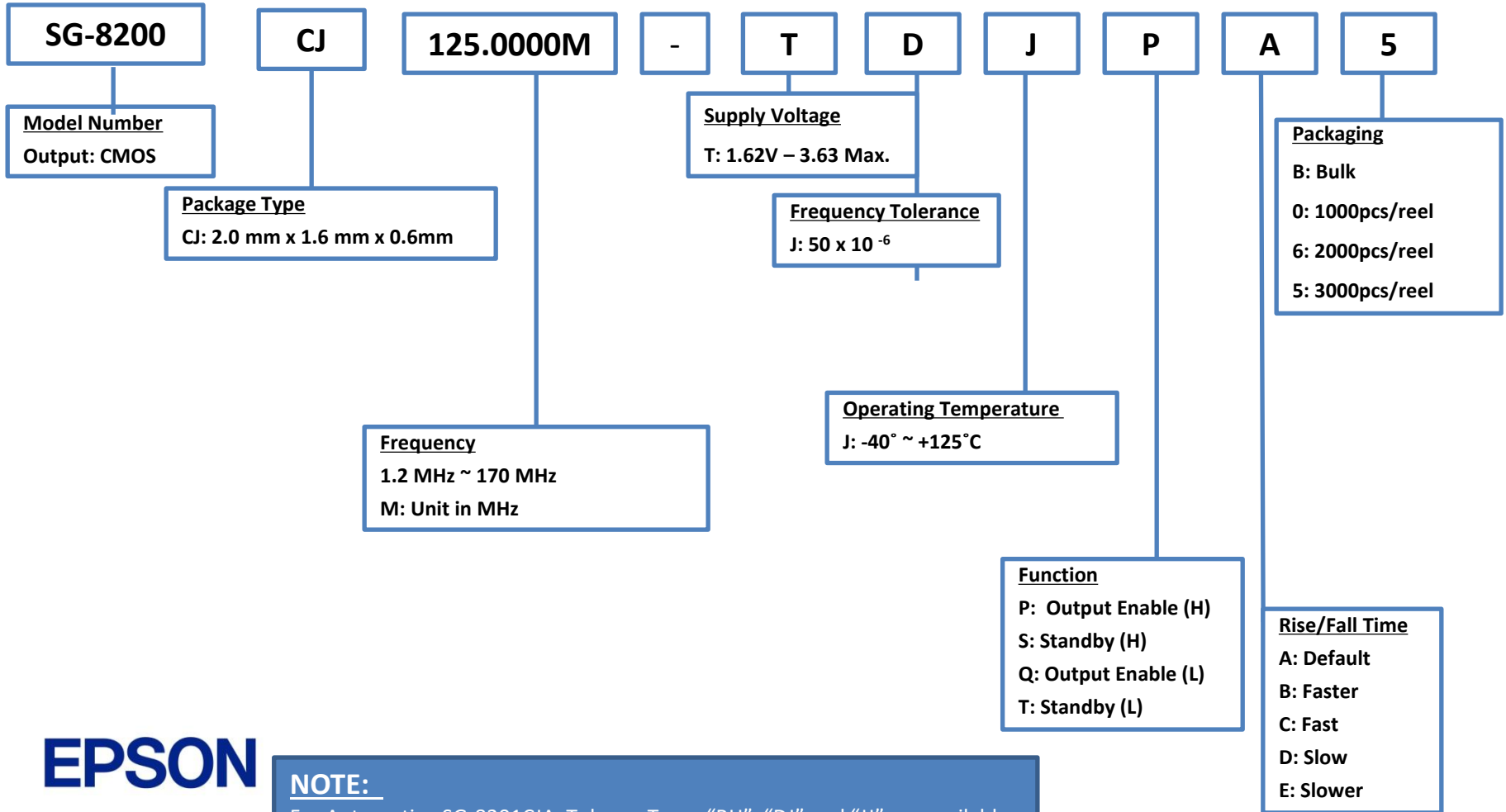
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Crystal Oscillator (SPXO) – Programmable & Low Jitter



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