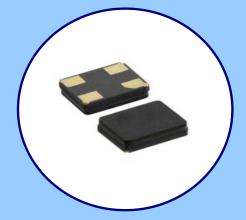


- AUTOMOTIVE ELECTRONICS

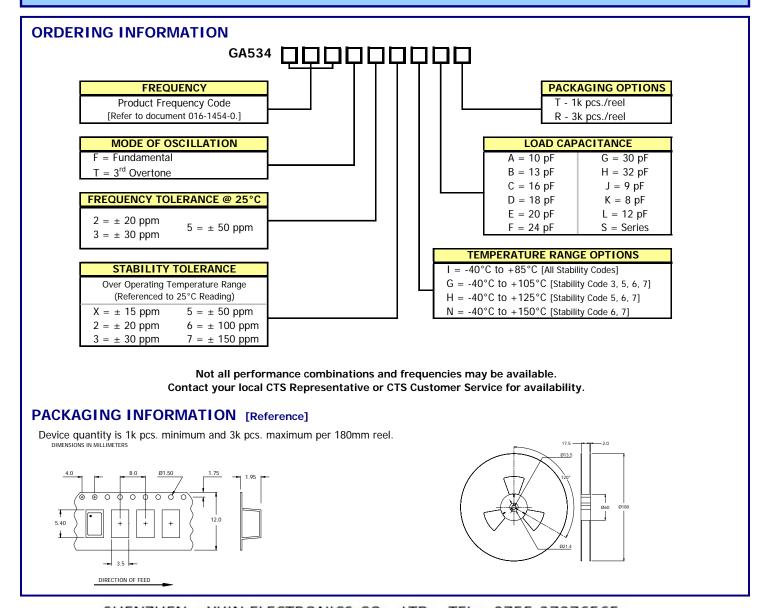
FEATURES

- AEC-Q200 Compliant
- Standard 5.0mm x 3.2mm Glass Seal Package
- Fundamental Crystal Design
- Frequency Range 8 40 MHz Fundamental, 24 120 MHz 3rd Overtone
- Frequency Tolerance; ±20 ppm, ±30 ppm and ± 50 ppm
- Frequency Stability, reference Ordering Information
- Operating Temperature, -40°C to +125°C standard
- Tape & Reel Packaging Standard, EIA-481
- RoHS Compliant in Accordance with EU Directive 2011/65/EU
 - Lead-Free Termination Finish
 - Exemption 7(c)-I, Electrical and electronic components containing lead [Pb] in glass



APPLICATIONS

Model GA534 is a low cost crystal specifically developed for use in automotive electronics.



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MODEL GA534 AUTOMOTIVE CRYSTAL

ELECTRICAL CHARACTERISTICS

	PARAMETER	VALUE			
	Operating Mode	Fundamental		3 rd Overtone	
ELECTRICAL PARAMETERS	Frequency Range	8.0 MHz to 40.0 MHz 24.0 MHz to 120.0 MHz			
	Crystal Cut	AT-Cut			
	Frequency Tolerance @ 25°C	±20 ppm, ±30 ppm, ±50 ppm			
	Frequency Stability Tolerance ¹	±15 ppm, ±20 ppm, ±30 ppm,			
	[Operating Temperature Range, Referenced to 25°C Reading]	±50 ppm, ±100 ppm, ±150 ppm			
	Operating Temperature Range ¹	-40°C to +85°C [All Stability Codes] -40°C to +105°C [Stability Code 3, 5, 6, 7] -40°C to +125°C [Stability Code 5, 6, 7]			
		-40°C to +150°C [Stability Code 7]			
	Equivalent Series Resistance	8.000 MHz - 9.999 MHz	150 Ohms maximum	24.000 MHz - 53.999 MHz	150 Ohms maximum
		10.000 MHz - 15.999 MHz	60 Ohms maximum	54.000 MHz - 120.000 MHz	100 Ohms maximum
		16.000 MHz - 40.000 MHz	50 Ohms maximum		
	Load Capacitance or Resonance Mode	8pF, 12pF standard			
	[See Ordering Information for More Options]				
	Shunt Capacitance (C ₀)	3.0 pF typical, 5.0 pF maximum			
	Drive Level	10 μW typical, 100 μW maximum			
	Aging @ +25°C	±5 ppm/yr maximum			
	Insulation Resistance [@ DC 100V]	500M Ohms minimum			
	Storage Temperature Range	-40°C to +125°C			
	Reflow Condition, per JEDEC J-STD-020	+260°C maximum, 10 Seconds maximum			

¹ See Ordering Information.

MECHANICAL SPECIFICATIONS

[5.00 ±0.10] 0.197 ±0.004 GA534 CDXXX [1.30 ±0.20] 0.051 ±0.008 Bottom View [2.40] 0.094

TABLE I - DATE CODE

MARKING INFORMATION

- 1. GA534 CTS Model Series.
- 2. C CTS.
- 3. D Date code. See Table I for codes.
- 4. XXX Frequency code. [Reference CTS document 016-1450-0, Frequency Code Tables.]

NOTES

- Complete CTS part number, frequency value, date code and manufacturing site code information must appear on reel and carton labels.
- 2. Termination pads (e4); barrier plating is nickel [Ni] with gold [Au] flash plate.
- Reflow conditions per JEDEC J-STD-020; 260°C maximum, 10 seconds.

SUGGESTED SOLDER PAD GEOMETRY

