



Taitien Releases Automotive Electronics Solutions



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Description

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AUTOMOTIVE

IATF 16949

AEC-Q100

AEC-Q200



High Quality Requirements “Zero Defects”

A quiet revolution is transforming the automotive industry with electric vehicles (EVs) soon going to have their own mobility. The integration of the Internet of Vehicles (IoV) and advanced AI computing will enable new functions and services for the driving and electric vehicle architecture.

Taitien provides compact sized crystal, low jitter oscillators and high stability TCXO needed for automotive data centers, infotainment systems, Connected Cars, C-V2X, 5G communications, ADAS, LEO for IoV, and GNSS positioning and tracking. Low-latency communication and reliable performance required for vehicles today, tomorrow and into the future.

Features

- In Alignment with AEC-Q200 / AEC-Q100 / IATF 16949
- Operating temperature range: up to -55°C ~ 125°C
- High quality requirements such as zero defects
- Special product codes formulation to distinguish in-vehicle products from ordinary products
- Enhanced process controls to meet the requirements of a wide operating temperature
- High temperature production processes to ensure high quality automotive crystal products



Taitien Product Solution

Product Family	Product Features	Output Waveform	Product Size(mm ²)	Applications
VCTCXOs  	Miniature	Clipped Sine Wave	TZ 2.0 x 1.6 TY 2.5 x 2.0	EV Charger, Data Center of Vehicle, C-V2X, Infotainment, ADAS, LEO Satellite Communications and GNSS Positioning
	Stratum 3 High Stability High Frequency	Clipped Sine Wave, CMOS	TW 5.0 x 3.2 TL 5.0 x 3.2 TT 7.0 x 5.0 TK 14.3 x 9.6	LEO Satellite Communications and GNSS Positioning
XOs 	Extended Temperature Range	CMOS	OZ 2.0 x 1.6 OY 2.5 x 2.0 OX 3.2 x 2.5	EV Charger, Data Center of Vehicle, Infotainment, ADAS
	Low Power (1.4uA, 1.5V)	CMOS	OZ-D 2.0 x 1.6 OY-D 2.5 x 2.0	Infotainment
	Fast Delivery	CMOS	PZ-U 2.0 x 1.6 PY-U 2.5 x 2.0 PX-U 3.2 x 2.5	EV Charger, Data Center of Vehicle, Infotainment, ADAS
	Ultra Low Jitter (Typ. 0.06 ps; 12 kHz to 20 MHz)	Differential	OA 3.2 x 2.5	Data Center of Vehicle
XTALs   	Miniature		X3 1.6 x 1.2 XZ 2.0 x 1.6 XY 2.5 x 2.0 XX 3.2 x 2.5	EV Charger, Data Center of Vehicle, C-V2X, Infotainment, ADAS, LEO Satellite Communications and GNSS Positioning
	Low Profile		XI 10.8 x 4.5 XJ 12.5 x 4.5	EV Charger, C-V2X, ADAS
	kHz		XD 3.2 x 1.5	EV Charger, Data Center of Vehicle, C-V2X, Infotainment, ADAS, LEO Satellite Communications and GNSS Positioning

Note : Not all combinations are available. Detailed specifications are available upon request.

Request a Quote

CDI works continuously with our vendor partners to connect our customers to products and solutions that accelerate the will leverage its product knowledge, technical expertise, and evaluation tools to find the right solution for your design, even to recommend competitor's parts.

For more information, or to learn how we can help drive your success, please visit rf.cdiweb.com or email us at sales@cdiweb.com

About Taitien

CDI is an authorized distributor for **Taitien**. Taitien offers OCXO, TCXO, VCXO, Crystal, and Crystal Oscillators. Taitien support various fields including automotive, consumer electronics, information technology and telecommunications. Taitien innovation and invests heavily in research & development.

About Component Distributors, Inc. (CDI)

Component Distributors, Inc. (CDI) is a value-added distributor of high-performance LED, Power, RF & Microwave, W component technologies. CDI distributes globally and provides local application support and customer service across the delivers cutting edge power electronics by wrapping application support, development tools and design services around products from industry leading manufacturers.

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