














Automotive Products




AUTOMOTIVE CRYSTALS

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Tolerance Options (ppm)	Stability Options (ppm)	Operating Temp Range Options
	CXAF-751	7.0*5.0*1.1	6.000-133.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	CXAF-631	6.0*3.5*1.1	8.000-133.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	CXAF-531	5.0*3.2*1.0	8.000-133.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	CXAF-421	4.0*2.5*0.8	12.000-52.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	CXAF-321	3.2*2.5*0.75	8.000-150.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	CXAF-221	2.5*2.0*0.65	12.000-133.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	CXAF-211	2.0*1.6*0.5	16.000-96.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	CXAF-161	1.6*1.2*0.4	24.000-60.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C




AUTOMOTIVE OSCILLATORS

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	SMBF-751	7.0*5.0*1.4	1.000-40.000 1.000-75.000 1.000-135.000	1.8, 2.5, 3.3, 1.62-3.63 2.5 3.3	±25 ±40 ±50	-40~+85°C -40~+105°C -40~+125°C
	SMAF-531	5.0*3.2*1.3	1.000-50.000 1.000-75.000 1.000-135.000	1.8, 2.5, 3.3, 1.62-3.63 2.5 3.3	±25 ±40 ±50	-40~+85°C -40~+105°C -40~+125°C
	SMAF-321	3.2*2.5*1.2	2.000-54.000	1.8, 2.5, 3.3, 1.62-3.63	±25 ±40 ±50	-40~+85°C -40~+105°C -40~+125°C
	SMAF-221	2.5*2.0*0.95	2.000-50.000	1.8, 2.5, 3.3, 1.62-3.63	±25 ±40 ±50	-40~+85°C -40~+105°C -40~+125°C
	SMAF-211	2.0*1.6*0.8	2.000-50.000	1.8, 2.5, 3.3, 1.62-3.63	±25 ±40 ±50	-40~+85°C -40~+105°C -40~+125°C

AUTOMOTIVE TCXO

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	TXOF-321	3.2*2.5*1.2	10.000-52.000	1.8, 2.5, 3.3, 1.68-3.63	±0.5 ±2.0	-20~+70°C -40~+85°C
	TXOF-221	2.5*2.0*0.95	10.000-52.000	1.8, 2.5, 3.3, 1.68-3.63	±0.5 ±2.0	-20~+70°C -40~+85°C
	TXOF-211	2.0*1.6*0.8	10.000-52.000	1.8, 2.5, 3.3, 1.68-3.63	±0.5 ±2.0	-20~+70°C -40~+85°C

AUTOMOTIVE VCTCXO

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	VTOF-321	3.2*2.5*1.2	10.000-52.000	1.8, 2.5, 3.3	±0.5 ±2.0	-20~+70°C -40~+85°C
	VTOF-221	2.5*2.0*0.95	10.000-52.000	1.8, 2.5, 3.3	±0.5 ±2.0	-20~+70°C -40~+85°C
	VTOF-211	2.0*1.6*0.8	10.000-52.000	1.8, 2.5, 3.3	±0.5 ±2.0	-20~+70°C -40~+85°C

Aker Technology

Founded in 1990, Aker Technology has grown to be a world class manufacturer of frequency control products for the global electronics market. We offer our customers a very broad line of leading-edge quartz crystals, clock oscillators, TCXOs, and VCXOs, including a very strong line of AECQ-200 products for the automotive industry.

Aker Technology's state-of-the-art Manufacturing, Engineering, Quality Control, and Research & Development are located at our corporate headquarters in Taichung, Taiwan. We are a technology-oriented company focused on developing advanced quartz-based frequency control products and we invest heavily in research and development.



Our Quality Management System is certified to the ISO 9001 : 2015 and IATF 16949 : 2016 standard.

We have sales and customer support teams in Taiwan, Hong Kong, Shenzhen, Shanghai, and Miami. We have a large network of sales representatives and distributors located worldwide to offer technical and sales support to our customers.

In 2002 Aker Technology became a publicly held company and is traded on the Taiwan Stock Exchange.

Our commitment to all stakeholders is Business Integrity, Professional Service, and Quality First.

Professional Frequency Manufacturer



Quality-ISO Certifications:

ISO 9001 | IATF 16949 | ISO 14001 | ISO 45001 | IECQ QC 080000 | ISO 50001

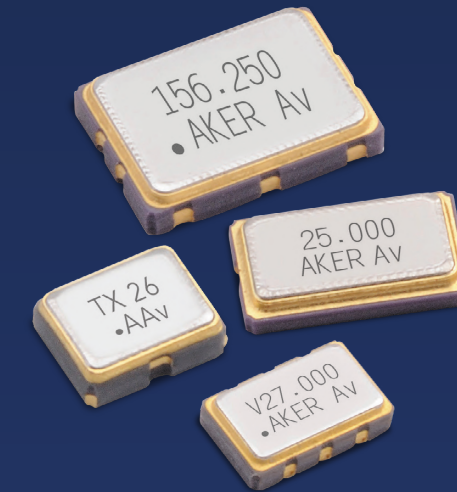


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Crystal and Oscillator Products



Crystal Products

SMD CRYSTALS

Outline	Model	Dimension (mm)	FREQ. Range (MHz)	Tolerance Options (ppm)	Stability Options (ppm)	Operating Temp Range Options
	CXAN-751	7.0*5.0*1.1	6.000-133.000	±10~±30	±10 ±15 ±30 ±50	-20~+70°C -40~+85°C -40~+105°C -40~+125°C
	CXAN-631	6.0*3.5*1.1	8.000-133.000	±10~±30	±10 ±15 ±30 ±50	-20~+70°C -40~+85°C -40~+105°C -40~+125°C
	CXBN-631	6.0*3.5*1.1	8.000-133.000	±10~±30	±10 ±15 ±30 ±50	-20~+70°C -40~+85°C -40~+105°C -40~+125°C
	CXAN-531	5.0*3.2*1.0	8.000-133.000	±10~±30	±10 ±15 ±30 ±50	-20~+70°C -40~+85°C -40~+105°C -40~+125°C
	CXAN-421	4.0*2.5*0.8	12.000-52.000	±10~±30	±10 ±15 ±30 ±50	-20~+70°C -40~+85°C -40~+105°C -40~+125°C
	CXAN-321	3.2*2.5*0.75	8.000-150.000	±10~±30	±10 ±15 ±30 ±50	-20~+70°C -40~+85°C -40~+105°C -40~+125°C
	CXAN-221	2.5*2.0*0.65	12.000-133.000	±10~±30	±10 ±15 ±30 ±50	-20~+70°C -40~+85°C -40~+105°C -40~+125°C
	CXAN-211	2.0*1.6*0.5	16.000-96.000	±10~±30	±10 ±15 ±20 ±30 ±50	-20~+70°C -30~+85°C -40~+85°C -40~+105°C -40~+125°C
	CXAN-161	1.6*1.2*0.4	24.000-60.000	±10~±30	±15 ±20 ±30 ±50	-20~+70°C -40~+85°C -40~+105°C -40~+125°C

SMD TUNING FORKS

Outline	Model	Dimension (mm)	Frequency Range (KHz)	Tolerance Options (ppm)	Temperature Coefficient (PPM/°C²)	Operating Temp Range Options
	D11N	1.6*1.0*0.5	32.768	±20	-0.035 Typ	-40~+85°C
	D21N	2.0*1.2*0.6	32.768	±20	-0.035 Typ	-40~+85°C
	D31N	3.2*1.5*0.65	32.768	±20	-0.035 Typ	-40~+85°C

Oscillator Products

HCMOS OSCILLATORS

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	SMBN-751	7.0*5.0*1.4	0.5000-40.000	1.8, 2.5, 3.3, 5, 1.62-3.63	±20	-20~+70°C
			0.5000-75.000	2.5, 3.3	±30	-40~+85°C
			0.5000-156.250	3.3	±40 ±50	-40~+105°C -40~+125°C
	SMAN-531	5.0*3.2*1.3	0.5000-50.000	1.8, 2.5, 3.3, 5, 1.62-3.63	±20	-20~+70°C
			0.5000-75.000	2.5, 3.3	±30	-40~+85°C
			0.5000-156.250	3.3	±40 ±50	-40~+105°C -40~+125°C
	SMAN-321	3.2*2.5*1.2	1.000-54.000	1.8, 2.5, 3.3, 5, 1.62-3.63	±20	-20~+70°C
			1.0000-75.000	2.5, 3.3	±30	-40~+85°C
			1.0000-156.250	3.3	±40 ±50	-40~+105°C -40~+125°C
	SMAN-221	2.5*2.0*0.95	2.000-50.000	1.8, 2.5, 3.3, 5, 1.62-3.63	±20	-20~+70°C
			2.000-125.000	3.3	±30 ±40 ±50	-40~+85°C -40~+105°C -40~+125°C
			2.000-50.000	1.8, 2.5, 3.3, 1.62-3.63	±20 ±30 ±40 ±50	-20~+70°C -40~+85°C -40~+105°C -40~+125°C

HCMOS OSCILLATORS - 32.768 KHZ

Outline	Model	Dimension (mm)	Frequency Range (KHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	SMBN-751	7.0*5.0*1.4	32.768	1.8, 2.5, 3.3, 1.62-3.63	±20	-20~+70°C
					±30	-40~+85°C
					±40 ±50	-40~+105°C -40~+125°C
	SMAN-531	5.0*3.2*1.3	32.768	1.8, 2.5, 3.3, 1.62-3.63	±20	-20~+70°C
					±30	-40~+85°C
					±40 ±50	-40~+105°C -40~+125°C
	SMAN-321	3.2*2.5*1.2	32.768	1.8, 2.5, 3.3, 1.62-3.63	±20	-20~+70°C
					±30	-40~+85°C
					±40 ±50	-40~+105°C -40~+125°C
	SMAN-221	2.5*2.0*0.95	32.768	1.8, 2.5, 3.3, 1.62-3.63	±20	-20~+70°C
					±30	-40~+85°C
					±40 ±50	-40~+105°C -40~+125°C
	SMAN-211	2.0*1.6*0.8	32.768	1.8, 2.5, 3.3, 1.62-3.63	±20	-20~+70°C
					±30	-40~+85°C
					±40 ±50	-40~+105°C -40~+125°C

HIGH PRECISION OSCILLATORS

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	SMHN-321	3.2*2.5*1.2	1.000-54.000	1.8, 2.5, 3.3	±4 ±5	-20~+70°C -40~+85°C

Oscillator Products

LVPECL

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	SMEN-751	7.0*5.0*1.4	13.500 ~ 160.000	2.5, 3.3	±20	-20~+70°C
			160.000 ~ 800.000		±25	-40~+85°C
	SMEN-531	5.0*3.2*1.3	13.500 ~ 156.250	2.5, 3.3	±20	-20~+70°C
			160.000 ~ 800.000		±25	-40~+85°C
	SMEN-321	3.2*2.5*1.1	13.500-156.250	2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	SMEN-221	2.5*2.0*1.1	13.500-156.250	2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C

LVDS

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	SMDN-751	7.0*5.0*1.4	13.500 ~ 160.000	1.8, 2.5, 3.3	±20	-20~+70°C
			160.000 ~ 800.000		±25	-40~+85°C
	SMDN-531	5.0*3.2*1.3	13.500 ~ 156.250	1.8, 2.5, 3.3	±20	-20~+70°C
			160.000 ~ 800.000		±25	-40~+85°C
	SMDN-321	3.2*2.5*1.1	13.500-156.250	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	SMDN-221	2.5*2.0*1.1	13.500-156.250	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C

HCSL

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	SMLN-751	7.0*5.0*1.4	13.500-160.000	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	SMLN-531	5.0*3.2*1.3	13.500-156.250	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	SMLN-321	3.2*2.5*1.1	13.500-156.250	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	SMLN-221	2.5*2.0*1.1	13.500-156.250	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C

VCXO

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	VXON-751	7.0*5.0*1.9	1.000-52.000	3.3, 5.0	±20 ±25	-20~+70°C -40~+85°C
	VXON-531	5.0*3.2*1.3	1.000-52.000	3.3, 5.0	±20 ±25	-20~+70°C -40~+85°C
	VXON-321	3.2*2.5*1.2	1.000-50.000	3.3	±20 ±25	-20~+70°C -40~+85°C

TCXO

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	TXON-321	3.2*2.5*1.2	10.000-52.000	1.8, 2.5, 3.3, 1.68-3.63	±0.5 ±2.0	-20~+70°C -40~+85°C
	TXON-221	2.5*2.0*0.95	10.000-52.000	1.8, 2.5, 3.3, 1.68-3.63	±0.5 ±2.0	-20~+70°C -40~+85°C
	TXON-211	2.0*1.6*0.8	10.000-52.000	1.8, 2.5, 3.3, 1.68-3.63	±0.5 ±2.0	-20~+70°C -40~+85°C

VCTCXO

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	VTON-321	3.2*2.5*1.2	10.000-52.000	1.8, 2.5, 3.3	±0.5 ±2.0	-20~+70°C -40~+85°C
	VTON-221	2.5*2.0*0.95	10.000-52.000	1.8, 2.5, 3.3	±0.5 ±2.0	-20~+70°C -40~+85°C
	VTON-211	2.0*1.6*0.8	10.000-52.000	1.8, 2.5, 3.3	±0.5 ±2.0	-20~+70°C -40~+85°C