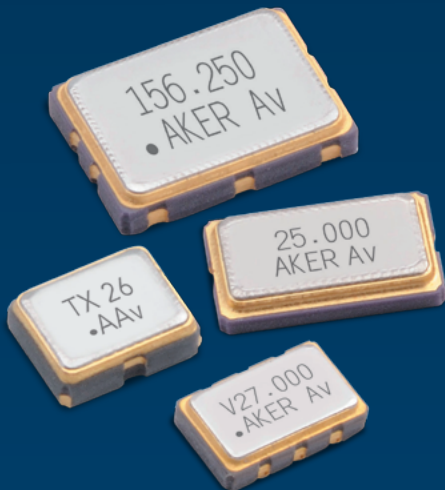






Crystal and Oscillator Products






Crystal Products

SMD CRYSTALS






Outline	Model	Dimension (mm)	FREQ.Range (MHZ)	Tolerance Options (ppm)	Stability Options (ppm)	Operating Temp Range Options
	C7S	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
	C6S	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
	C6SA	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
	C5S	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
	C4S	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
	C3E	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
	C2E	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
	C1E	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
	C16	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/°C ²)	Operating Temp Range Options
	CTS1	1.6*1.0*0.5	32.768	±20	-0.035 Typ	-40~+85°C
	CTS2	2.0*1.2*0.6	32.768	±20	-0.035 Typ	-40~+85°C
	CTS3	3.2*1.5*0.65	32.768	±20	-0.035 Typ	-40~+85°C

Oscillator Products


HC MOS OSCILLATORS

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	S7	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
			0.5000-156.25000	3.3	±40	-40~+105°C
	S5	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
			0.5000-156.25000	3.3	±40	-40~+105°C
	S3	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	-40~+105°C
	S2	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~+85°C
	S1	2.0*1.6*0.8	2.000-50.000	1.8, 2.5, 3.3, 1.62-3.63	±20	-20~+70°C
					±30	-40~+85°C
					±40	-40~+105°C
					±50	-40~+125°C

HC MOS OSCILLATORS – 32.768 KHZ





Outline	Model	Dimension (mm)	Frequency Range (KHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	S7-32.768khz	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	-40~+105°C
					±50	-40~+125°C
	S5-32.768khz	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	-40~+105°C
					±50	-40~+125°C
	S3-32.768khz	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	-40~+105°C
					±50	-40~+125°C
	S2-32.768khz	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	-40~+105°C
					±50	-40~+125°C
	S1 32.768Khz	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	-40~+105°C
					±50	-40~+125°C

HIGH PRECISION OSCILLATORS





Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	HP3	3.2*2.5*1.2	1.000-54.000	1.8, 2.5, 3.3	±4	-20~+70°C
					±5	-40~+85°C

Oscillator Products





LVPECL

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Voltage Options (V)	Stability Options (ppm)	Operating Temp Range Options
	S7A	7.0*5.0*1.4	13.500-800.000	2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	S5A	5.0*3.2*1.3	13.500-800.000	2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	S3A	3.2*2.5*1.1	13.500-156.250	2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	S2A	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
	S7A	7.0*5.0*1.4	13.500-800.000	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	S5A	5.0*3.2*1.3	13.500-800.000	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	S3A	3.2*2.5*1.1	13.500-156.250	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	S2A	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
	S7A	7.0*5.0*1.4	13.500-160.000	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	S5A	5.0*3.2*1.3	13.500-156.250	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	S3A	3.2*2.5*1.1	13.500-156.250	1.8, 2.5, 3.3	±20 ±25	-20~+70°C -40~+85°C
	S2A	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
	V7	7.0*5.0*1.9	1.000-52.000	3.3, 5.0	±20 ±25	-20~+70°C -40~+85°C
	V5	5.0*3.2*1.3	1.000-52.000	3.3, 5.0	±20 ±25	-20~+70°C -40~+85°C
	V3	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
	TX32	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
	TX22	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
	TX21	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
	TV32	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
	TV22	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
	TV21	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

Automotive Products




AUTOMOTIVE CRYSTALS

Outline	Model	Dimension (mm)	Frequency Range (MHz)	Tolerance Options (ppm)	Stability Options (ppm)	Operating Temp Range Options
	C7S Auto	7.0*5.0*1.1	6.000-133.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	C6S Auto	6.0*3.5*1.1	8.000-133.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	C5S Auto	5.0*3.2*1.0	8.000-133.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	C4S Auto	4.0*2.5*0.8	12.000-52.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	C3E Auto	3.2*2.5*0.75	8.000-150.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	C2E Auto	2.5*2.0*0.65	12.000-133.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	C1E Auto	2.0*1.6*0.5	16.000-96.000	±10~±30	±20 ±30 ±50	-40~+85°C -40~+105°C -40~+125°C
	C16 Auto	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
	S7 Auto	7.0*5.0*1.4	1.000-40.000	1.8, 2.5, 3.3, 1.62-3.63	±25	-40~+85°C
			1.000-75.000	2.5	±40	-40~+105°C
			1.000-135.000	3.3	±50	-40~+125°C
	S5 Auto	5.0*3.2*1.3	1.000-50.000	1.8, 2.5, 3.3, 1.62-3.63	±25	-40~+85°C
			1.000-75.000	2.5	±40	-40~+105°C
			1.000-135.000	3.3	±50	-40~+125°C
	S3 Auto	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
	S2 Auto	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
	S1 Auto	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
	TX32 Auto	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
	TX25 Auto	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
	TX21 Auto	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
	TV32 Auto	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
	TV25 Auto	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
	TV21 Auto	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 and headquartered in Taichung, Taiwan, Aker Technology is a prominent manufacturer of frequency control products for the global electronics industry. Aker Technology was established to manufacture and market high volume and competitively priced frequency control products.

Our supply channel is organized for efficiency and practicality. All sales, administrative, and customer support groups are located in Taipei, Hong Kong, Shenzhen, Shanghai and Miami. Our manufacturing facilities are located in Taichung, Taiwan. All products are shipped directly to customers or through Taiwan, Hong Kong, Miami, or Shenzhen offices. Sales representatives and distributors are

located worldwide to offer technical and sales support to our customers. Aker Technology will provide you with a competitive manufacturing advantage from our 4,730.70 sq meter plant in Taichung, Taiwan. Our Taiwan headquarters source engineering, QC, packaging, and manufacturing as well as connect our satellite sales offices throughout Asia, U.S. and Europe.

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

Aker Technology has an outstanding record of flexibility, consistency, commitment, reliability, and proven performance with all our customers.



Professional Frequency Manufacturer



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