



KDK Product 4 Clock Oscillators1

◇Clock Oscillators

KDK Model	HAT/KHC	HHT/HHC	KD3030	RUN	MIN
Size & Outline	 14PIN	 8PIN	 10.5x5.0x2.7mm	 11.2x5.5x2.5mm	 7.5x5.0x1.4mm
FREQ.	1.8~170MHZ	1.8~170MHZ	32.768KHZ	1.8~80.0MHZ	12KHZ~170MHZ
Product Feature	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 5V, 3.3V Industrial Standard	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 5V, 3.3V Industrial Standard	-40~85 1.5V~5.5V	± 25ppm ~ ± 100ppm -10~70 ~ -40~85 5V	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 5V, 3.3V, 2.8V, 2.5V,1.8V

		NEW		NEW	
MAT	MIT	TAG	DUT	MIN-Y	DUT-Y
 7.0x5.0x1.5mm	 7.0x5.0x1.4mm	 6.0x3.5x1.5mm	 5.0x3.20x1.05mm	 7.5x5.0x1.3mm	 5.0x3.20x1.05mm
1.8~50.0MHZ	1.0~170MHZ	1.8~50.0MHZ	1.8~160.0MHZ	1.8~50.0MHZ	1.8~50.0MHZ
± 10ppm ~ ± 20ppm -10~70 ~ -40~85 5V, 3.3V	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 5V, 3.3V	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 5V, 3.3V, 2.8V, 2.5V,1.8V	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 5V, 3.3V, 2.8V, 2.5V,1.8V	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 Low Current type 3.3V, 2.8V, 2.5V	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 Low Current type 3.3V, 2.8V, 2.5V



KDK Product 5 Clock Oscillators2

✧ Clock Oscillators

KDK Model	MEG	MAG	MOT	BIZ	CET
Size & Outline	 3.2x2.5x1.1mm	 3.2x2.5x1.15mm	 2.5x2.0x1.0mm	 2.0x1.6x1.0mm	 7.5x5.0x1.6mm
FREQ.	1.8~155.52MHZ	1.0~200.0MHZ	1.8~155.52MHZ	1.8~155.52MHZ	8.0~170MHZ
Product Feature	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 3.3V, 2.5V, 1.8V	± 25ppm ~ ± 100ppm -10~70 ~ -40~85 3.3V, 2.5V, 1.8V Programmable OSC	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 3.3V, 2.5V, 1.8V	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 3.3V, 2.5V, 1.8V	Spread Spectrum Type Center /Down Spread -10~70C 3.3V

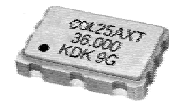
SAS90	CAP90	CEM	TEM	AEM	DEL
 14x9.8x6.0mm	 7.5x5.0x1.6mm	 7.5x5.0x1.5mm	 5.0x3.2x1.1mm	 3.2x2.5x1.1mm	 5.0x3.2x0.75mm
52~800MHZ	12~800MHZ	50~170MHZ	50~170MHZ	40~220MHZ	1.8~50.0MHZ
± 50ppm ~ ± 100ppm -10~70 ~ -40~85 3.3V, 5V LVPECL	± 25ppm ~ ± 100ppm -10~70 ~ -40~85 3.3V LVPECL/LVDS	± 25ppm ~ ± 100ppm -10~70 ~ -40~85 3.3V, 2.5V LVPECL/LVDS	± 25ppm ~ ± 100ppm -10~70 ~ -40~85 3.3V, 2.5V LVPECL/LVDS	± 15ppm ~ ± 100ppm -10~70 ~ -40~85 3.3V, 2.5V LVPECL/LVDS	± 50ppm ~ ± 100ppm -10~70 0.75Thickness



KDK Product 6 VCXO

◇ VCXO

KDK Model	ACT	SAT	SAS	CAL	COC
Size & Outline	 14PIN VCXO	 20.3x13.7x7.0mm	 14x9.8x5.5mm	 14x9.8x3.2mm	 7.5x5.0x2.1mm
FREQ.	1.0~45MHZ	12~800MHZ	50~800MHZ	1.0~45MHZ	1.0~45MHZ
Product Feature	Pull: $\pm 50 \sim \pm 100$ ppm -10~70 ~ -40~85 5.0V	Pull: $\pm 50 \sim \pm 100$ ppm -10~70 ~ -40~85 5.0V, 3.3V LVPECL,CMOS	Pull: $\pm 50 \sim \pm 100$ ppm -10~70 ~ -40~85 5.0V, 3.3V LVPECL,CMOS	Pull: $\pm 50 \sim \pm 80$ ppm -10~70 ~ -40~85 5.0V, 3.3V CMOS	Pull: $\pm 50 \sim \pm 100$ ppm -10~70 ~ -40~85 5.0V, 3.3V CMOS

			NEW	NEW	NEW
CAP30	CAP60	COT	COL	COB	COP
 7.5x5.0x1.6mm	 7.5x5.0x1.6mm	 5.0x3.2x1.3mm	 5.0x3.2x1.4mm	 3.2x2.5x1.15mm	 3.2x2.5x1.15mm
12~800MHZ	50~700MHZ	1.0~80MHZ	1.0~80MHZ	1.0~52MHZ	40~170MHZ
Pull: ± 150 ppm -10~70 ~ -40~85 3.3V LVPECL,LVDS	Pull: ± 80 ppm -10~70 ~ -40~85 3.3V LVPECL,LVDS	Pull: $\pm 50 \sim \pm 100$ ppm -10~70 ~ -40~85 5.0V, 3.3V CMOS	Pull: $\pm 50 \sim \pm 100$ ppm -10~70 ~ -40~85 5.0V, 3.3V CMOS	Pull: $\pm 50 \sim \pm 100$ ppm -10~70 ~ -40~85 3.3V CMOS	VCXO -10~70 ~ -40~85 3.3V, 2.5V LVPECL/LVDS



KDK Product 7 TCXO/OCXO

✧TCXO OCXO

KDK Model	NTO-801	NTO-802	NEW NTO-841	NEW QAT7	
Size & Outline	 11.4x9.60x1.85mm	 11.4x9.60x1.85mm	 9.0x7.0x1.85mm	 7.0x5.0x3.75mm	
FREQ.	9.6~77.76MHZ	9.6~77.76MHZ	12.8~50MHZ	10~52MHZ	
Product Feature	± 1ppm~ ± 2.5ppm -20~70 ~ -40~85 CMOS TCXO CMOS VCTCXO	± 1ppm~ ± 2.5ppm -20~70 ~ -40~85 CMOS TCXO CMOS VCTCXO	± 1ppm~ ± 2.5ppm -20~70 ~ -40~85 CMOS TCXO CMOS VCTCXO	± 1ppm~ ± 2.5ppm -20~70 ~ -40~85 CMOS TCXO CMOS VCTCXO	

NEW

SOC					
					
10~40.0MHZ					
± 300ppb/0~70 OCXO 5.0V, 3.3V					