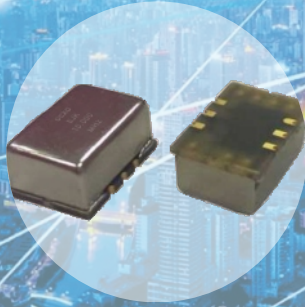




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OCXO

Oven Controlled Crystal Oscillator

9X Series SMD 14*9 OCXO	2
5X Series SMD 25*22 OCXO	3
2X Series 14-Pin Full-Size OCXO	4
9M Series Thru-hole DIP 25*25 OCXO	5
6X Series Thru-hole DIP 36*27 OCXO	6

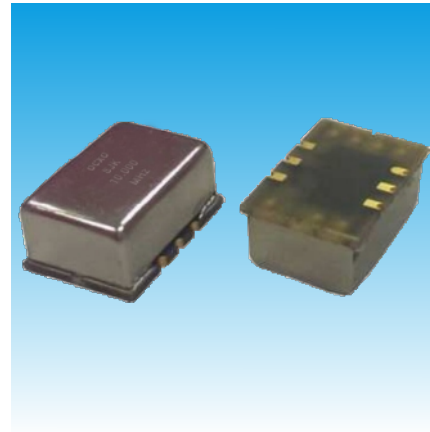
OCXO | Oven Controlled Crystal Oscillator

Size: 14.0×9.0×6.5 mm

9X Series SMD OCXO

Features

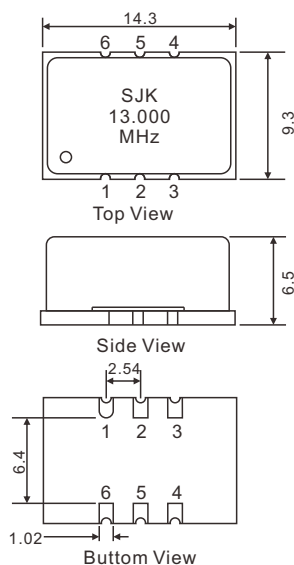
- Typical 14.3×9.3×6.5mm SMD OCXO
- Frequency range from 5MHz to 40MHz
- ±30ppb stability over -40~+85°C
- Stratum 3(Overall ±4.6ppm including 20 year aging.)
- Automatic mounting and reflow soldering
- Applications: Base station, Synthesizer, Digital switch, Measuring equipment, etc
- RoHS Compliant /Pb Free



Standard Specification

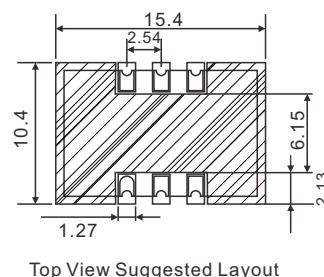
Item /Type		9X Series (SMD OCXO)
Output Type		HCMOS
Output Load		15pF, or specify
Output Wave Form		Rectangular
Frequency Range		5~40MHz
Supply Voltage		3.3V/5.0V
Operating Temperature		-30~+70°C, or specify
Frequency Stability	Tolerance	±30ppb
	vs Temperature	±30ppb
	vs Supply Voltage	±5ppb Max.
	vs Aging	±0.2ppb/Days, ±0.4ppm/Year, ±2.0ppm/10 Years Max.
Voltage Vol(Max.) /Voh (Min.)		0.1Vcc/0.9Vcc Max.
Duty Cycle		45~55%
Spurious		-60dBC Max.
Warm-up		±0.1ppm (In 5 minutes @25°C, referenced to 1 hour)
Power Consumption (Steady state)		0.6W Max.
Frequency Adjustment Range		±5ppm (+1.65±1.65V/+2.5±2.5V)
Phase Noise @20MHz	@10Hz	-98dBc/Hz Typ.
	@100Hz	-126dBc/Hz Typ.
	@1KHz	-145dBc/Hz Typ.
	@10KHz	-152dBc/Hz Typ.

Dimensions [mm]



Pin Connections

Pin No.	Connection
1	Vco Input /NC
2	OE /NC
3	0 Volts & Case
4	R.F. Output
5	NC
6	Vdd



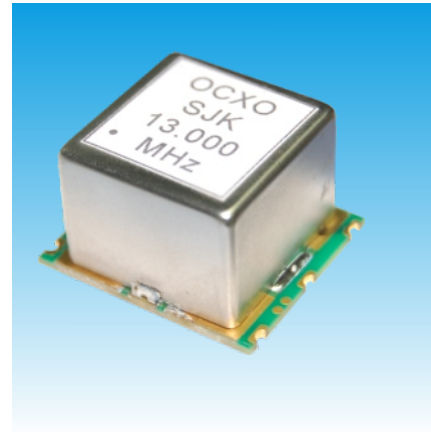
OCXO | Oven Controlled Crystal Oscillator **SJK**

Size: 25.4×22.1×11 mm

5X Series SMD OCXO

Features

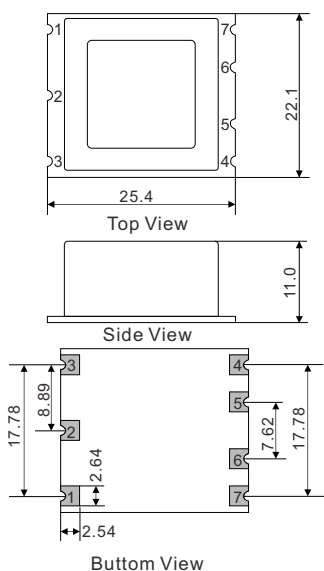
- Dimension 25.4×22.1×11.0mm
- Frequency range from 5MHz to 40MHz
- SC cut crystal
- Automatic mounting and reflow soldering
- Low phase noise
- Applications: Base station, Synthesizer, Test and measuring equipment, etc
- RoHS Compliant /Pb Free



Standard Specification

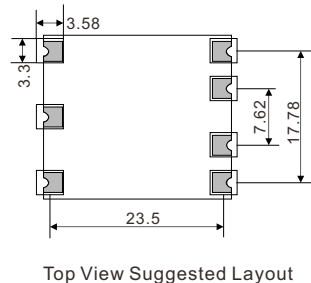
Item /Type		5X Series (SMD OCXO)
Output Type		HCMOS
Output Load		15pF, or specify
Output Wave Form		Rectangular
Frequency Range		5~40MHz
Supply Voltage		3.3V/5.0V
Operating Temperature		-30~+70°C, or specify
Frequency Stability	Tolerance	±10ppb
	vs Temperature	±5ppb~±20ppb
	vs Supply Voltage	±0.5ppb Max.
	vs Aging	±0.5ppb/Days, ±50ppb/Year, ±0.4ppm/10 Years Max.
Voltage Vol(Max.) /Voh (Min.)		0.1Vcc/0.9Vcc Max.
Duty Cycle		45~55%
Spurious		-60dBC Max.
Warm-up		±10ppb (In 5 minutes @25°C, referenced to 1 hour)
Power Consumption (Steady state)		1.2W Max.
Frequency Adjustment Range		±0.5ppm (+1.65±1.65V/+2.5±2.5V)
Phase Noise	@10Hz	-115dBc/Hz Max.
	@100Hz	-130dBc/Hz Max.
	@1KHz	-140dBc/Hz Max.
	@10KHz	-150dBc/Hz Max.

Dimensions [mm]



Pin Connections

Pin No.	Connection
1	Vco Input /NC
2	Reference Voltage /NC
3	Vcc
4	R.F. Output
5	Oven monitor /NC
6	NC
7	0 Volts & Case



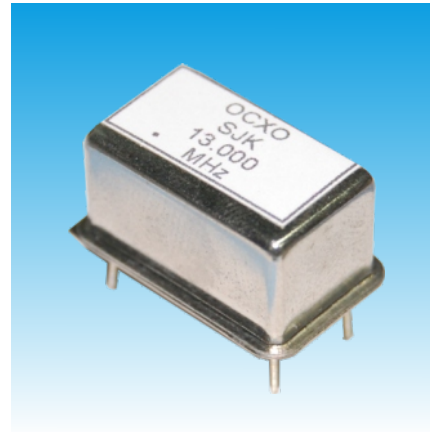
OCXO | Oven Controlled Crystal Oscillator **SJK**

Size: 20.3×12.7×11 mm

2X Series DIP OCXO

Features

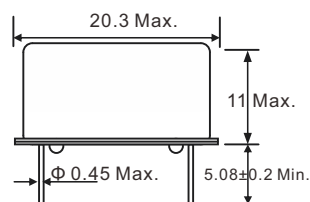
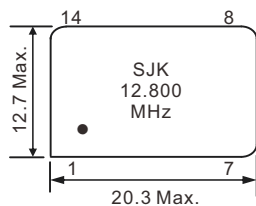
- Full size 14 pin DIP full metal package
- Frequency range from 5MHz to 40MHz
- Supply voltage: 3.3V/5.0V
- Stratum 3(Overall ± 4.6 ppm including 20 year aging.)
- Low phase noise
- Applications: Base station, Synthesizer, Digital switch, Measuring equipment, etc
- RoHS Compliant /Pb Free



Standard Specification

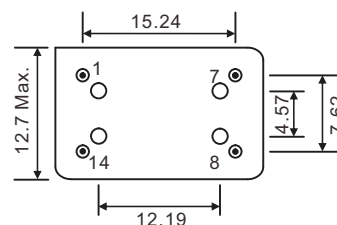
Item /Type		2X Series (14-Pin DIP OCXO)
Output Type		HCMOS
Output Load		15pF, or specify
Output Wave Form		Rectangular
Frequency Range		5~40MHz
Supply Voltage		3.3V/5.0V
Operating Temperature		-30~+70°C, or specify
Frequency Stability	Tolerance	± 0.1 ppm
	vs Temperature	± 50 ppb~ ± 200 ppb
	vs Supply Voltage	± 50 ppb Max.
	vs Aging	± 5.0 ppb/Days, ± 0.5 ppm/Year, ± 3.0 ppm/10 Years Max.
Voltage Vol(Max.) /Voh (Min.)		0.1Vcc/0.9Vcc Max.
Duty Cycle		45~55%
Spurious		-60dBC Max.
Warm-up		± 0.1 ppm (In 5 minutes @25°C, referenced to 1 hour)
Power Consumption (Steady state)		0.8W Max.
Frequency Adjustment Range		± 5 ppm (+1.65 \pm 1.65V/+2.5 \pm 2.5V)
Phase Noise @20MHz	@10Hz	-105dBc/Hz Typ.
	@100Hz	-130dBc/Hz Typ.
	@1KHz	-140dBc/Hz Typ.
	@10KHz	-150dBc/Hz Typ.

Dimensions [mm]



Pin Connections

Pin No.	Connection
1	Vco Input /NC
7	0 Volts & Case
8	R.F. Output
14	Vdd



OCXO | Oven Controlled Crystal Oscillator **SJK**

Size: 25.4×25.4×12.7 mm

9M Series DIP OCXO

Features

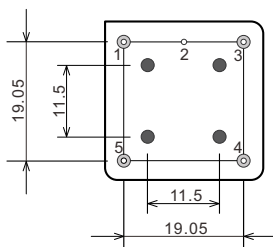
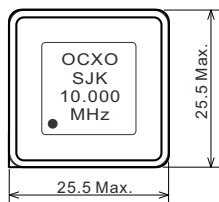
- Dimension 25.4×25.4×12.7mm
- Frequency range from 5MHz to 100MHz
- SC cut crystal
- Output type: LVTTTL/Sine wave
- Low phase noise
- Applications: Base station, Synthesizer, Test and measuring equipment, etc
- RoHS Compliant /Pb Free



Standard Specification

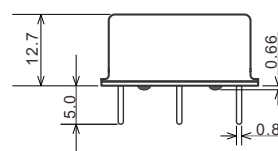
Item /Type		9M Series (DIP OCXO)
Output Type		LVTTTL/Sine wave
Output Load		15pF, or specify
Output Wave Form		Rectangular
Frequency Range		5~100MHz
Supply Voltage		3.3V/5.0V/12V
Operating Temperature		-30~+70°C, or specify
Frequency Stability	Tolerance	±10ppb
	vs Temperature	±3ppb~±10ppb
	vs Supply Voltage	±5.0ppb Max.
	vs Aging	±0.5ppb/Days, ±50ppb/Year, ±0.3ppm/10 Years Max.
Voltage Vol(Max.) /Voh (Min.)		0.1Vcc/0.9Vcc Max.
Duty Cycle		45~55%
Spurious		-60dBC Max.
Warm-up		±10ppb (In 5 minutes @25°C, referenced to 1 hour)
Power Consumption (Steady state)		1.2W Max.
Frequency Adjustment Range		±0.5ppm (+1.65±1.65V/+2.5±2.5V/+5±5V)
Phase Noise @20MHz	@10Hz	-120dBc/Hz Max.
	@100Hz	-135dBc/Hz Max.
	@1KHz	-145dBc/Hz Max.
	@10KHz	-150dBc/Hz Max.

Dimensions [mm]



Pin Connections

Pin No.	Connection
1	R.F. Output
2	0 Volts & Case
3	Vco Input /NC
4	Reference Voltage /NC / Oven Monitor
5	Vcc



OCXO | Oven Controlled Crystal Oscillator **SJK**

Size: 36.3×27.2×12.7 mm

6X Series DIP OCXO

Features

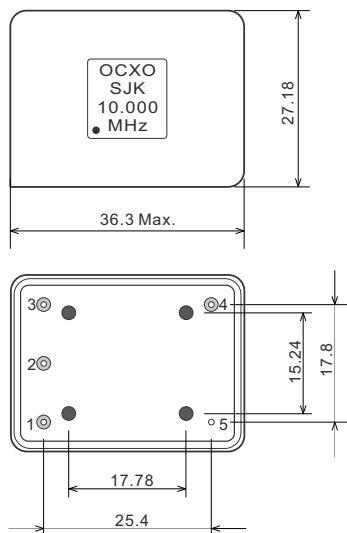
- Dimension 36.3×27.2×12.7mm
- Frequency range from 5MHz to 100MHz
- SC cut crystal
- Output type: LVTTTL/Sine wave
- Low phase noise
- Applications: Base station, Synthesizer, Test and measuring equipment, etc
- RoHS Compliant /Pb Free



Standard Specification

Item /Type		6X Series (DIP OCXO)
Output Type		LVTTTL/Sine wave
Output Load		15pF, or specify
Output Wave Form		Rectangular
Frequency Range		5~100MHz
Supply Voltage		5.0V/12V
Operating Temperature		-30~+70°C, or specify
Frequency Stability	Tolerance	±5.0ppb Max.
	vs Temperature	±3ppb~±10ppb
	vs Supply Voltage	±0.5ppb Max.
	vs Aging	±0.5ppb/Days, ±50ppb/Year, ±0.3ppm/10 Years Max.
Voltage Vol(Max.) /Voh (Min.)		0.1Vcc/0.9Vcc Max.
Duty Cycle		45~55%
Spurious		-60dBC Max.
Warm-up		±10ppb (In 5 minutes @25°C, referenced to 1 hour)
Power Consumption (Steady state)		1.3W Max.
Frequency Adjustment Range		±0.5ppm (5V±0.2V/12±0.5V)
Phase Noise @20MHz	@10Hz	-120dBc/Hz Max.
	@100Hz	-135dBc/Hz Max.
	@1KHz	-145dBc/Hz Max.
	@10KHz	-150dBc/Hz Max.

Dimensions [mm]



Pin Connections

Pin No.	Connection
1	Vco Input /NC
2	Reference Voltage /NC
3	Vcc
4	R.F. Output
5	0 Volts & Case

