

SHORTFORM OCXO DIL 14 PACKAGE



MODEL	OCXOW	OCXOWT	SCOCXOWT
Power Supply Voltage		3.3 V	
Input current @ +30°C		< 110 mA	
Input current @ -20°C		< 170 mA	
Warm-up current		< 250 mA	
Duration		30s	

OCXOV / OCXOVT / SCOCXOVT		
	5.0 V	
	< 80 mA	
	< 120 mA	
	< 250 mA	
	10s	

OCXO / OCXOT / SCOCXOT		
	12.0 V	
	< 30 mA	
	< 45 mA	
	< 250 mA	
	10s	

Frequency Range	up to 54 MHz
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up to 54 MHz

up to 54 MHz

Long Term stability	OCXOW (S)	OCXOWT (S)	SCOCXOWT (S)
1st year	< ± 0.7 ppm	< ± 0.7 ppm	< ± 0.3 ppm
10years	< ± 4.0 ppm	< ± 4.0 ppm	< ± 2.5 ppm

OCXOV (S)	OCXOVT (S)	SCOCXOVT (S)
< ± 0.7 ppm	< ± 0.7 ppm	< ± 0.3 ppm
< ± 4.0 ppm	< ± 4.0 ppm	< ± 2.5 ppm

OCXO (S)	OCXOT (S)	SCOCXOT (S)
< ± 0.7 ppm	< ± 0.7 ppm	< ± 0.3 ppm
< ± 4.0 ppm	< ± 4.0 ppm	< ± 2.5 ppm

Temperature Range	A : 0°C to +60°C
	B : -20°C to +70°C
	C : -40°C to +85°C

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B : -20°C to +70°C
C : -40°C to +85°C

Stability vs Trange	OCXOW (S)	OCXOWT (S)	SCOCXOWT (S)
Refer to 25°C	A : ≤ ± 0.2 ppm	≤ ± 0.075 ppm	≤ ± 0.05 ppm
	B : ≤ ± 0.3 ppm	≤ ± 0.15 ppm	≤ ± 0.075 ppm
	C : ≤ ± 0.5 ppm	≤ ± 0.25 ppm	≤ ± 0.1 ppm

OCXOV (S)	OCXOVT (S)	SCOCXOVT (S)
A : ≤ ± 0.2 ppm	≤ ± 0.075 ppm	≤ ± 0.025 ppm
B : ≤ ± 0.3 ppm	≤ ± 0.15 ppm	≤ ± 0.05 ppm
C : ≤ ± 0.5 ppm	≤ ± 0.25 ppm	≤ ± 0.1 ppm

OCXO (S)	OCXOT (S)	SCOCXOT (S)
A : ≤ ± 0.2 ppm	≤ ± 0.075 ppm	≤ ± 0.025 ppm
B : ≤ ± 0.3 ppm	≤ ± 0.15 ppm	≤ ± 0.05 ppm
C : ≤ ± 0.5 ppm	≤ ± 0.25 ppm	≤ ± 0.1 ppm

Output Signal	H : HC-MOS compatible
	S : < 20 MHz > 1 Vpp / 1 KΩ > 4 dBm / 50Ω
	S : > 20 MHz > 0.63 Vpp / 1 KΩ > 0 dBm / 50Ω

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S : < 20 MHz > 1 Vpp / 1 KΩ > 4 dBm / 50Ω
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H : HC-MOS compatible
S : < 20 MHz > 1 Vpp / 1 KΩ > 4 dBm / 50Ω
S : > 20 MHz > 0.63 Vpp / 1 KΩ > 0 dBm / 50Ω

Frequency Control	OCXOW (S)	OCXOWT (S)	SCOCXOWT (S)
	R1: > ± 4 ppm (0 to 10KΩ)		> ± 2.5 ppm
	V3: > ± 4 ppm (0 to 3.3V)		> ± 2.5 ppm

OCXOV (S)	OCXOVT (S)	SCOCXOVT (S)
R1: > ± 4 ppm (0 to 10KΩ)		> ± 2.5 ppm
V5: > ± 4 ppm (0.5 to 5.0V)		> ± 2.5 ppm

OCXO (S)	OCXOT (S)	SCOCXOT (S)
R1: > ± 4 ppm (0 to 10KΩ)		> ± 2.5 ppm
V5: > ± 4 ppm (0.5 to 5.0V)		> ± 2.5 ppm

Phase Noise (BW = 1Hz)	Typical @ 10MHz in static conditions		
Output Signal		H	S
	10Hz	-100 dBc / Hz	-110 dBc / Hz
	100Hz	-130 dBc / Hz	-135 dBc / Hz
	1KHz	-140 dBc / Hz	-145 dBc / Hz
	10KHz	-145 dBc / Hz	-150 dBc / Hz

Typical @ 10MHz in static conditions		
	H	S
10Hz	-100 dBc / Hz	-110 dBc / Hz
100Hz	-130 dBc / Hz	-135 dBc / Hz
1KHz	-140 dBc / Hz	-145 dBc / Hz
10KHz	-145 dBc / Hz	-150 dBc / Hz

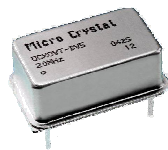
Typical @ 10MHz in static conditions		
	H	S
10Hz	-90 dBc / Hz	-100 dBc / Hz
100Hz	-120 dBc / Hz	-130 dBc / Hz
1KHz	-130 dBc / Hz	-140 dBc / Hz
10KHz	-145 dBc / Hz	-145 dBc / Hz

Short Term Stability	0.1s to 30s < 5 E ⁻¹⁰ Typical @ 1s 5 E ⁻¹¹
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0.1s to 30s < 5 E ⁻¹⁰ Typical @ 1s 5 E ⁻¹¹

0.1s to 30s < 5 E ⁻¹⁰ Typical @ 1s 5 E ⁻¹¹

Customer's specification on request



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MODEL		Stratum 3	
		OCXOWST	OCXOVST
Power Supply Voltage	Vcc	3.3V	5.0V
Input current @ +30°C		< 110 mA	< 80 mA
Input current @ -20°C		< 160 mA	< 120 mA
Warm-up current		< 250 mA	< 250 mA
Duration		up to 54 MHz	10s

Frequency Range	up to 20 MHz	up to 54 MHz
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Frequency Stability	
Overall included 15 Years Aging	< ± 4.6 ppm
Holdover Stability During 24 hours Including Load, Supply Voltage, Temperature variation	< ± 0.28 ppm

Temperature Range	D :	0°C to +70°C
	C :	-40°C to +85°C

Output Signal HC-MOS compatible	
Symmetry	45% - 55% @Vcc/2
Rise and Fall Time	< 7 ns
Level 0 and 1	V _{OL} < 10% Vcc V _{OH} > 90% Vcc
Fan Out (Load)	10LS or 47pF max.

Frequency Control	Not applicable Pin 1 must be connected to ground *
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Frequency Internal Calibration	@ 25°C < ± 1ppm *
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Phase Noise (BW = 1Hz)		Typical @ 10MHz, static conditions
10Hz	-100 dBc / Hz	
100Hz	-130 dBc / Hz	
1KHz	-140 dBc / Hz	
10KHz	-140 dBc / Hz	

Short Term Stability	
0.1s to 30s	< 5 E ⁻¹⁰
Typical @ 1s	5 E ⁻¹¹

MODEL		Cospass Sarsat	
		OCXOVT-SAR	OCXOT-SAR
Power Supply Voltage	Vcc	5.0V	12.0V
Input current @ +55°C		< 10 mA	< 10 mA
Input current @ +25°C		< 35 mA	< 30 mA
Input current @ -20°C		< 70 mA	< 55 mA
Warm-up current		up to 54 MHz	< 250 mA
Duration		10s	10s

Frequency Range	up to 20 MHz	up to 20 MHz
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Frequency Stability	
Temperature Range	-40°C to +55°C *
Stability over Temperature Range After 15mn Switch ON and with a slope of 5°C/h	< ± 3E ⁻⁹ / 50s *
Calibration and 5 Years Aging	< ± 4.5 ppm
Supply Voltage	< ± 0.1 ppm

Output Signal Clipped Sine Wave *	
Level	> 1Vpp
Load	1KΩ // 10pF ±10%

Frequency Control	Not applicable Pin 1 must be connected to ground *
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Frequency Internal Calibration	@ 25°C < ± 1ppm *
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Phase Noise (BW = 1Hz)		Typical @ 10MHz, static conditions
10Hz	-90 dBc / Hz	
100Hz	-120 dBc / Hz	
1KHz	-130 dBc / Hz	
10KHz	-130 dBc / Hz	

Short Term Stability	
0.1s to 30s	< 5 E ⁻¹⁰
Typical @ 1s	5 E ⁻¹¹

* Customer's specification on request