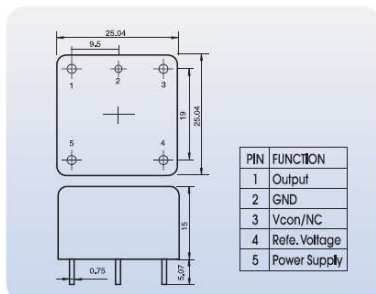


IO 30

OCXO Oven Controlled Crystal Oscillator

DIP/SMD

Dimensions l/w/h (max)	25,04 mm x 25,04 mm x 15,0 mm	
Frequency range	1,0 MHz to 100,0 MHz	
Operating temperature	Refer to Ordering Guidance	
Storage temperature	-40°C to +100°C	
Frequency Accuracy	Center control voltage: $\pm 0,1$ ppm	
Power supply voltage	3,3 V /5,0 V/12 V	
Frequency Stability vs Temperaturure	See Table	
Frequency Stabillity vs. Load	$\pm 0,02$ ppm vs. $\pm 10\%$ /Load change	
Frequency Stability vs. Voltage	$\pm 0,02$ ppm vs. $\pm 5\%$ /Voltage change	
Supply Consumption	3,6W (max.) when warm-up	
Warm-up Time	1,2W (max.) when static $\pm 0,5$ ppm < 3 minutes (AT) $\pm 0,3$ ppm < 3minutes (SC)	
Adjustable Frequency Range	AT: ± 5 ppm SC: ± 1 ppm	
Slope	Positive	
Linearity	$\pm 10\%$	
Control Voltage Range	0 V ~ 5 V	
Phase Noise (10,0 MHz)	1Hz: -80dB/Hz 10Hz: -120dB/Hz 100Hz: -140dB/Hz 1 KHz: -145dB/Hz 10 KHz: -150dB/Hz	
Aging	AT Cut: $\pm 0,003$ ppm/day $\pm 0,5$ ppm/1 st Y ± 3 ppm/10Years SC Cut: $\pm 0,003$ ppm/day $\pm 0,1$ ppm/1 st Y $\pm 0,5$ ppm/10Years	



Code	Frequency Stability vs. Temperature	Temperature Range
A	$\pm 0,1$ ppm (At Cut)	0 ~ +50°C
B	$\pm 0,05$ ppm (SC Cut)	
C	$\pm 0,2$ ppm (At Cut)	-20 ~ +70°C
D	$\pm 0,1$ ppm (SC Cut)	
E	$\pm 0,5$ ppm (At Cut)	-30 ~ +75°C
F	$\pm 0,3$ ppm (SC Cut)	

Output Waveform	Output Type Code	Frequency Range	Oscillation State	Output Characteristics
Clipping Sine Wave	0	8,00-30,00MHz 10,00-100,00MHz	F: Fundamental O: Overtone	Load: 10K Ω // 10PF Output Level: >1V _{pp}
TTL	1	1,00-30,00MHz 10,00-100,00MHz	F: Fundamental O: Overtone	(Load: Max 10 Low power consumption TTL gates) "1" Level: >+2,4VDC "0" Level: <+0,2VDC Duty Cycle: 45/55 Rise/Fall time: <6ns
HCMOS	2	1,00-30,00MHz 10,00-100,00MHz	F: Fundamental O: Overtone	(Load: Max 10 Low power consumption TTL gates) "1" Level: >+4,5VDC "0" Level: <+0,5VDC Duty Cycle: 45/55 Rise/Fall time: <6ns
ACMOS	3	1,00-30,00MHz 10,00-100,00MHz	F: Fundamental O: Overtone	(Load: Max 10 Low power consumption TTL gates) "1" Level: >+4,5VDC "0" Level: <+0,5VDC Duty Cycle: 45/55 Rise/Fall time: <6ns



IO - Oscil.																			
QS-Digits:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
QS- Eingabe/Enter:	I	O	1	4	0	2	4	,	0	0	0	M	0	3	,	3	B	B	
Bezeichnung/Indic.:	Gruppe		Grösse		Frequ./FRQ/Fliesskomma							Hz	Spannung/V			Fst	TR		
IO Applications: WLAN GPS WIFI Cell Phones Digital TV	IO Oscillators		Size code + packg. code 1-13 =3K/RL, ab 14 = 1K/RL									H/K/M/G				Frequency Stability	oper. Temp. in °C		
																		A	10
																		B	20
																		C	30
																		D	40
																		E	50
																		F	80
																		G	160
																		H	200
																		I	100
J	oth.																		
		A	= 0°C to +70°C																
		B	= -20°C to +70°C																
		C	= -20°C to +80°C																
		D	= -25°C to +85°C																
		E	= -40°C to +85°C																
		F	= -40°C to +104°C																
		G	= best																

IR - Reson.																	
QS-Digits:	1	2	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
QS- Eingabe/Enter:	I	R	Z	T	T	C	C	0	0	2	,	0	0	0	M	G	
Bezeichnung/Indic.:	Gruppe		Bezeichnung / Item Code							Frequency							Design Mode
IR Applications: DAB Cable Modem Remote Control	IR Resonator																Design Mode