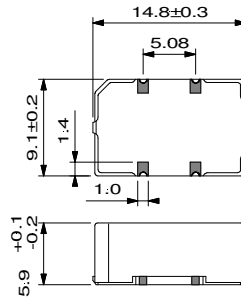
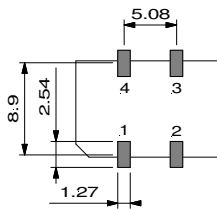


## MINIATURE SURFACE MOUNT OCXO DFO S1-LHV (3.3 V)

KEY FEATURES
<b>10 to 26 MHz</b>  <b>± 0.25 ppm over -20 to 70 °C up to 26 MHz</b>
APPLICATIONS
<b>Bases stations, frequency reference</b>



Function	DFO S1
V control	1
GND	2
Output	3
Vcc	4



PC board footprint

Please consult our application note about PCB design

TYPE	DFO S1-LHV
Frequency Range	10 to 26 MHz
Standard Frequencies	12.8, 13, 19.2, 20 & 26 MHz

ELECTRICAL SPECIFICATIONS	
supply voltage	3.3 V ± 5 %
supply power ( warm-up ) @ 25°C	≤ 1.9 W; 1.7 W typ
supply power ( steady state ) @ - 20°C	0.7 W typ.
supply power ( steady state ) @ 25°C	0.4 W typ.
output load	HCMOS 15 pF or 2 TTL
duty cycle @ 50% level	45/55...55/45 %
rise/fall times (10 to 90 %)	≤ 5 ns
high/low levels or output amplitude	≥ 2.8 V / ≤ 0.3 V
SSB phase noise (1 Hz B.W.) (Typical values at 19.2 MHz)	-85 dBc/Hz @ 10 Hz -115 dBc/Hz @ 100 Hz -140 dBc/Hz @ 1 kHz -150 dBc/Hz @ 10 kHz
warm-up time @ 25°C	≤ 5 min to reach ± 100 ppm

FREQUENCY STABILITY			detailed tolerances [ ppm ]				
type	temperature range	model code	stability versus:			calibration @ 25°C	
			temperature	Vcc ± 1 %	load ± 10 %		ageing
all types	0 to 70°C	B27	≤ ± 0.2	≤ ± 0.02	≤ ± 0.01	≤ ± 0.5	
	-20 to 70°C*	C258	≤ ± 0.25				
remark			ageing is 1 <sup>st</sup> year at 25°C				
voltage control on pin 1 (positive slope ) sufficient for 5 years calibration			≥ ± 4 ppm, ≤ ± 10 ppm relative to frequency at Vco = 1.65 V 1.65 V ± 1.35 V				
Input impedance			≥ 50 kΩ,				

ORDERING CODE	type + option code + frequency + model code
Example	DFO S1-LHV 20.000 MHz C17