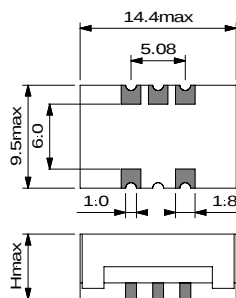


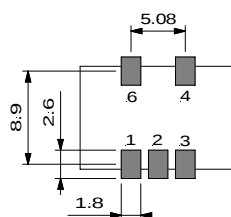
STRATUM III MINIATURE OCXO TYPES DFO S1-KH (5 V) & DFO S1-LH (3.3 V)

FEATURES
10 to 20 MHz Stratum III compliant over -20 to 70°C
APPLICATIONS
Stratum III



H = 8.50 mm

Function	DFO S1
NC	1
E / D	2
GND	3
Output	4
NC	5
Vcc	6



PC board footprint

TYPE	DFO S1-KH	DFO S1-LH
Frequency Range	10 to 20 MHz	
Standard frequencies	12.8, 16.384, 19.44 & 20 MHz	

ELECTRICAL SPECIFICATIONS		
supply voltage	5 V $\pm$ 5 %	3.3 V $\pm$ 5 %
supply current (no load) @ 25°C	$\leq$ 150 mA	$\leq$ 200 mA
supply current during warm up	$\leq$ 350 mA	$\leq$ 500 mA
output load	HCMOS 15 pF or 2 TTL	HCMOS 15 pF or 2 TTL
duty cycle @ 2.5 V	40/60...60/40 %	40/60...60/40 %
rise & fall times (10 to 90%)	$\leq$ 10 ns	$\leq$ 10 ns
high/low levels	$\geq$ 4.5 V / $\leq$ 0.5 V	$\geq$ 2.7 V / $\leq$ 0.5 V
SSB phase noise (1 Hz BW) @ 10 Hz	-95 dBc/Hz	-95 dBc/Hz
(typical @ 12.8MHz) @ 100 Hz	-120 dBc/Hz	-120 dBc/Hz
@ 1 kHz	-140 dBc/Hz	-140 dBc/Hz
@ 10 kHz	-145 dBc/Hz	-145 dBc/Hz
@ 100kHz	-150 dBc/Hz	-150 dBc/Hz
warm up time to reach $\leq 1 \times 10^{-7}$	≤ 2 min @ 25°C ref @ 1 hr frequency	≤ 2 min @ 25°C ref @ 1 hr frequency

FREQUENCY STABILITY			detailed tolerances after 30 days of operation						
type	temperature range	model code	stability versus:			overall stability	Holdover stability	24 hrs drift	calibration @ 25°C
			temperature	Vcc $\pm$ 5 %	ageing				
Telcordia GR-1244 CORE Stratum III/IIIE or ITU-T G.813 option 1									
all types	0 to 70°C	BS3	$\leq \pm 0.28$ ppm	$\leq \pm 1 \times 10^{-8}$	$\leq \pm 3.5$ ppm/15 years	$\leq \pm 4.6$ ppm/15 years	$\leq \pm 0.37$ ppm	$\leq \pm 4 \times 10^{-8}$	$\leq \pm 5 \times 10^{-7}$
	-20 to 70°C	CS3							
DEFINITIONS									
24 hours drift			GR-1244-CORE						
24 hours holdover mode			Over full temperature range and Vcc $\pm$ 1 %						

ORDERING CODE	type + option code + frequency + model code + voltage value
Example	DFO S1-LH 16.384 MHz CS3