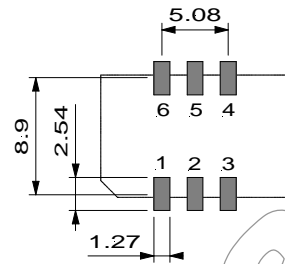
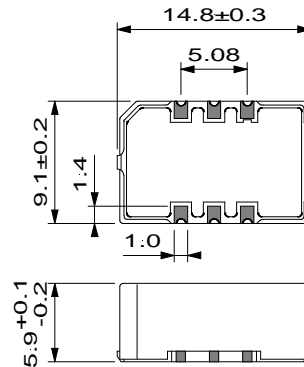


## MINIATURE SURFACE MOUNT TCXO

### DFA S1-KECPI (5 V) & DFA S1-LECPI (3.3 V)

FEATURES
<b>150 to 180 MHz</b>  <b>± 20 ppm/15 years stability</b>  <b>1 ps RMS jitter over 50 kHz to 80 MHz B.W.</b>
APPLICATIONS
<b>OC-192/Sonet/SDH</b>

Function	DFA S1-KE / LE
Output 2	1
E / D	2
GND	3
Output 1	4
N/C	5
Vcc	6



PC board footprint

TYPE	DFA S1-KECPI	DFA S1-LECPI
Frequency Range	150 to 180 MHz	150 to 180 MHz

ELECTRICAL SPECIFICATIONS	DFA S1-KECPI	DFA S1-LECPI
supply voltage	5 V ± 5 %	3.3 V ± 5 %
supply current (no load)	≤ 75 mA	≤ 65 mA
output load	PECL 100 K ( 50 Ω to 3 V )	LVPECL 100 K ( 50 Ω to 1.3 V )
duty cycle @ 50% level	45/55...55/45 %	45/55...55/45 %
rise/fall times ( 20 to 80% )	≤ 0.5 ns	≤ 0.5 ns
high/low levels	≥ 3.92 V / ≤ 3.45 V	≥ 2.22 V / ≤ 1.7 V
jitter RMS ( 12 kHz to 5 MHz )	≤ 0.5 ps	≤ 0.5 ps
jitter RMS ( 50 kHz to 80 MHz )	≤ 1.0 ps	≤ 1.0 ps
enable / disable on pin 2	low or open = enable, high = disable	low or open = enable, high = disable
complementary output on pin 1	180° phase shifted	180° phase shifted
start up	≤ 10 ms @ 4.5 V	≤ 10 ms @ 3.15 V

FREQUENCY STABILITY			detailed tolerances [ ppm ]				
type	temperature range	model code	temperature	stability versus : Vcc ± 2.5 %	ageing	Overall stability	Calibration @ 25°C
all types	-40 to 85°C	XE20C	± 8 typ	± 3 typ	± 4 over 15 years typ	≤ ± 20 over 15 years	± 5 typ

ORDERING CODE	type + option code + frequency + stability / temperature code
Example	DFA S1-LECPI 155.52 MHz XE20C