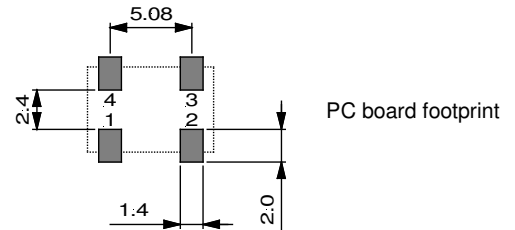
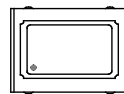
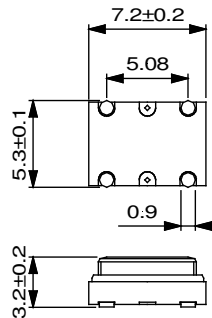


# MINIATURE SURFACE MOUNT TCXO

## DFA S2-KO (5 V) / LO (3.3 V) / UO (3.0 V)

KEY FEATURES
5 to 52 MHz
Tight temperature stability
Analogue temperature compensation
APPLICATIONS
Mobile communications, Microwave

Function	DFA S2
NC or V control	1
GND	2
Output	3
Vcc	4



TYPE	DFA S2-KO	DFA S2-LO	DFA S2-UO
Frequency Range		5 to 52 MHz	

ELECTRICAL SPECIFICATIONS		DFA S2-KO	DFA S2-LO	DFA S2-UO
supply voltage		5 V ± 5 %	3.3 V ± 5 %	3.0 V ± 5 %
supply current ( no load)	≤ 13 MHz ≤ 26 MHz > 26 MHz	≤ 3 mA ≤ 4 mA ≤ 6 mA	≤ 2 mA ≤ 3 mA ≤ 5 mA	≤ 2 mA ≤ 3 mA ≤ 5 mA
output load		Clipped sine wave 10 kΩ//10 pF	Clipped sine wave 10 kΩ//10 pF	Clipped sine wave 10 kΩ//10 pF
output amplitude	≤ 40 MHz > 40 MHz	≥ 1.0 V p-p ≥ 0.8 V p-p	≥ 1.0 V p-p ≥ 0.8 V p-p	≥ 1.0 V p-p ≥ 0.8 V p-p
Harmonics of output signal spurious		- 10 dBc typ ≤ -70 dBc	- 10 dBc typ ≤ -70 dBc	- 10 dBc typ ≤ -70 dBc
start-up		≤ 10 ms @ 4.75 V	≤ 10 ms @ 3.15 V	≤ 10 ms @ 2.85 V

FREQUENCY STABILITY			detailed tolerances [ ppm ]			
type	temperature range	model code	stability versus:			calibration @ 25°C
			temperature	Vcc ± 5 %	load ± 10 %	
all types	0 to 70 °C	B0.5*	≤ ± 0.5	≤ ± 0.1	≤ ± 0.1	≤ ± 1
	-20 to 70 °C	C0.5*	≤ ± 0.5			
	-40 to 85 °C	E0.5*	≤ ± 0.5			
	-40 to 85 °C	E1*	≤ ± 1.0			
	-40 to 85 °C	E2	≤ ± 2.0			
remarks			* Not available at all frequencies, please consult factory for more details ageing is 1 <sup>st</sup> year at 25°C			

OPTIONS	CODE	DFA S2-KO	DFA S2-LO	DFA S2-UO
voltage control on pin 1 (positive slope)	V	≥ ± 5 ppm, ≤ ± 15 ppm 2.5 V ± 2 V	≥ ± 5 ppm, ≤ ± 15 ppm 1.65 V ± 1.35 V	≥ ± 5 ppm, ≤ ± 15 ppm 1.5 V ± 1.0 V

ORDERING CODE	type + option code + frequency + model code
Example	DFA S2-LOV 12.8 MHz E0.5