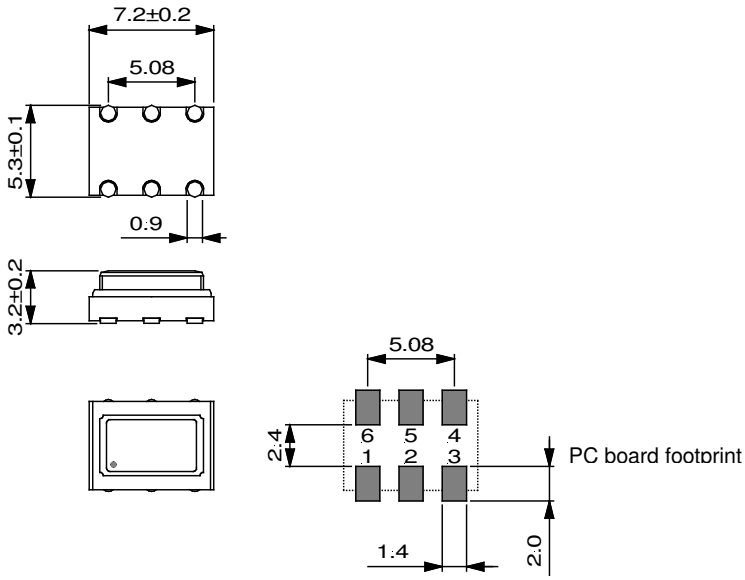
MINIATURE SURFACE MOUNT VCXO

DFV S2-KHZ (5 V) & DFV S2-LHZ (3.3 V)

KEY FEATURES
2 to 52 MHz
± 20 ppm overall stability available
Encapsulated crystal
APPLICATIONS
Sonet/SDH/Switching



Function	DFV S2
V control	1
N/C or Enable/Disable	2
GND	3
Output	4
N/C or Enable/Disable	5
Vcc	6

TYPE	DFV S2-KHZ	DFV S2-LHZ
Frequency Range	2 to 52 MHz	2 to 52 MHz

ELECTRICAL SPECIFICATIONS		
supply voltage	5 V ± 5 %	3.3 V ± 5 %
supply current (no load) ≤ 25 MHz	≤ 15 mA	≤ 10 mA
> 25 MHz	≤ 35 mA	≤ 25 mA
output load (HCMOS)	25 pF up to 25 MHz, 15 pF above	15 pF
duty cycle	45/55...55/45 % @ 50% level	45/55...55/45 % @ 50% level
rise/fall times (@ 15 pF load)	10 to 90 % : ≤ 5 ns	10 to 90 % : ≤ 5 ns
high/low levels	≥ 4.5 V/ ≤ 0.5 V	≥ 2.8 V/ ≤ 0.3 V
tri-state control (pin 2) (pin 5 N/C)	high or open = enable, low = high Z	high or open = enable, low = high Z
start up	≤ 10 ms @ 4.75 V	≤ 10 ms @ 3.15 V

FREQUENCY STABILITY			tolerances [ppm]			
type	temperature range	model code	overall stability	pulling range	function	control voltage
DFV S2-KHZ	0 to 70 °C	100XB20	≤ ± 20	≥ ± 100	positive	2.5 V ± 2.5 V
		100XB25	≤ ± 25	≥ ± 100		
	-40 to 85 °C	100XE50	≤ ± 50			
DFV S2-LHZ	0 to 70 °C	90XB20	≤ ± 20	≥ ± 90	positive	1.65 V ± 1.65 V
		90XB25	≤ ± 25			
	-40 to 85 °C	90XE50	≤ ± 50			
remarks			input impedance ≥ 10 kΩ			
			includes calibration @ 25 °C, temperature, ageing, Vcc and load changes			
			ageing is 1st year at 25 °C			

OPTIONS	CODE	
tri-state control on pin 5	Z5	high or open = enable, low = high Z (pin 2 N/C)

ORDERING CODE	type + option code + frequency + model code
Example	DFV S2-LHZ 34.368 MHz 90XB20