

## LOW POWER MINIATURE SMD VCXO TYPES DFV S1-KH/KHZ (5.0 V)

RECOMMENDED FOR NEW DESIGNS

CRYSTAL PACKED INTO ITS OWN HOLDER

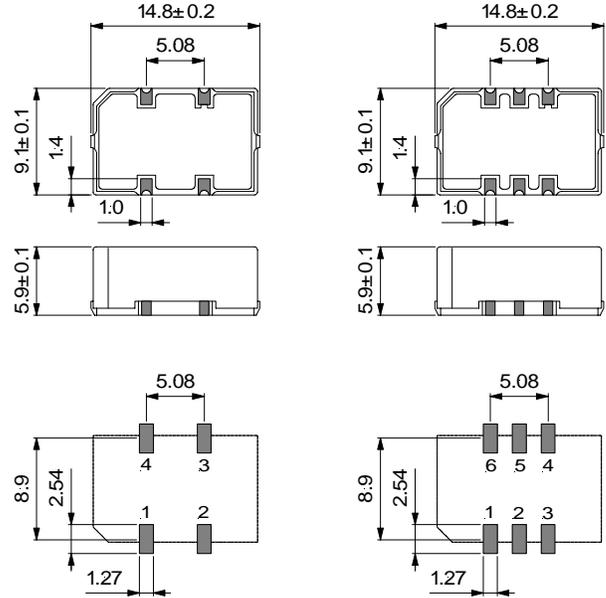
SURFACE MOUNTABLE EPOXY PACKAGE

5.0 V SUPPLY VOLTAGE

HIGH FREQUENCIES

Function	DFV S1-KH	DFV S1-KHZ
V control	1	1
Enable	N/A	2
GND	2	3
Output	3	4
NC	N/A	5
Vcc	4	6

PC board footprint



TYPE	DFV S1-KH/KHZ
Frequency Range	1 to 100 MHz

ELECTRICAL SPECIFICATIONS	
supply voltage	5 V ± 5 %
supply current (no load)	≤ 10 mA (KH), ≤ 20 mA (KHZ)
	≤ 40 mA
	≤ 60 mA
output load (HCMOS)	50 pF up to 25 MHz, 15 pF above
duty cycle	40/60...60/40 % @ 50% level
rise/fall times (@ 15 pF load)	10 to 90 % : ≤ 10 ns
high/low levels	≥ 4.5 V / ≤ 0.5 V
start up	≤ 10 ms @ 4.75 V

FREQUENCY STABILITY			detailed tolerances [ ppm ]						
type	temperature range	model code	stability versus:				pulling range positive function	control voltage	
			temp.	@ 25°C	Vcc	load			ageing
DFV S1-K	0 to 70°C	100B15	≤ ± 15	≤ ± 10	≤ ± 3	≤ ± 0.5	≤ ± 2	≥ ± 100	2.5 V ± 2 V
		100B25	≤ ± 25						
	-40 to 85°C	100E25	≤ ± 25						
		100E50	≤ ± 50						
remarks			input impedance ≥ 10 kΩ, modulation bandwidth ≥ 10 kHz @ -3dB ageing is 1 <sup>st</sup> year at 25°C						

OPTIONS	CODE	
tighter symmetry (f ≤ 45 MHz)	R	45/55...55/45 %
tri-state control on pin 2	Z	high or open = enable, low = disable ( <b>6 pad package</b> )

ORDERING CODE	type + option code + frequency + model code
Example	DFV S1-KH 16.384 MHz 100B15