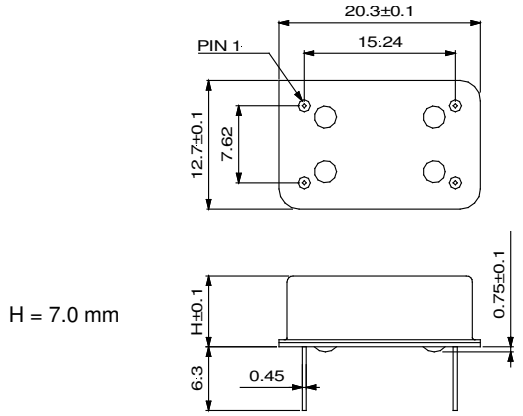
LOW POWER TIGHT SPECIFICATION DIL-14 VCXO

DFV 14-KH (5 V) & DFV 14-LH (3.3 V)

KEY FEATURES
1 to 130 MHz
Encapsulated crystal
APPLICATIONS
Sonet/SDH/Switching

Function	DFV 14-KH/LH
V control	1
GND	7
Output	8
Vcc	14



H = 7.0 mm

TYPE	DFV 14-KH	DFV 14-LH
Frequency Range	1 to 100 MHz	4 to 130 MHz

ELECTRICAL SPECIFICATIONS			
supply voltage		5 V ± 5 %	3.3 V ± 5 %
supply current (no load)	≤ 25 MHz	≤ 10 mA	≤ 10 mA
	≤ 25 MHz	≤ 50 mA	≤ 40 mA
output load (HCMOS)		50 pF up to 25 MHz, 15 pF above	25 pF up to 25 MHz, 15 pF above
duty cycle		40/60...60/40 % @ 50% level	40/60...60/40 % @ 50% level
rise/fall times (@ 15 pF load)	≤ 25 MHz	10 to 90 % : ≤ 10 ns	10 to 90 % : ≤ 10 ns
	> 25 MHz	: ≤ 5 ns	: ≤ 5 ns
high/low levels		≥ 4.5 V/ ≤ 0.5 V	≥ 2.8 V/ ≤ 0.3 V
start up		≤ 10 ms @ 4.75 V	≤ 10 ms @ 3.15V

FREQUENCY STABILITY			detailed tolerances [ppm]						
type	temperature range	model code	stability versus: temp.	@ 25℃	Vcc	load	ageing	pulling range positive function	control voltage
DFV 14-KH	0 to 70℃	100B15	≤ ± 15	≤ ± 10	≤ ± 3	≤ ± 0.5	≤ ± 2	≥ ± 100	0.5 to 5.0 V centred @ 2.5 V
		100B25	≤ ± 25						
	-40 to 85℃	100E20*	≤ ± 20						
		100E25	≤ ± 25						
		100E50	≤ ± 50						
DFV 14-LH	0 to 70℃	100B15	≤ ± 15	≤ ± 10	≤ ± 3	≤ ± 0.5	≤ ± 2	≥ ± 100	1.65 ± 1.35 V
		100B25	≤ ± 25						
	-40 to 85℃	100E25**	≤ ± 25						
		100E50**	≤ ± 50						
remarks			input impedance ≥ 10 kΩ, modulation bandwidth ≥ 10 kHz @ -3dB						
			ageing is 1st year at 25℃						
			* 100E20 and 100AE20 are available up to 63 MHz						
			** DFV 14-LH -40 to 85℃ versions up to 80 MHz only						

OPTIONS	CODE	
tight symmetry	R	45/55...55/45 %
control voltage	A	0.5 to 4.5 V, center @ 2.5 V (code placed into the model code : 100''A''B25)
	C	0.5 to 10 V, center @ 4.25 V (code placed into the model code : 100"C"B25)
high load output	DFV 14-KB	HCMOS 50 pF or 10 TTL, Icc ≤ 20 mA up to 25 MHz, ≤ 50 mA above

ORDERING CODE	type + option code + frequency + model code
Example	DFV 14-KHR 44.736 MHz 100E25

These products and their specifications are subject to change without notice.
Fully compliant to RoHS Directive 2002/95/EC