

MINIATURE DIL 14 PACKAGE VC-TCXO

DFAV 14-K (5 V) & DFAV 14-L (3.3 V)

KEY FEATURES

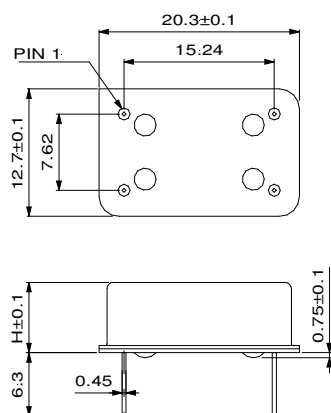
2 to 52 MHz
± 40 ppm pulling range

APPLICATIONS

SDH/Sonet/Microwave

Function	DFAV 14
V control	1
GND	7
Output	8
Vcc	14

H = 8.50 mm



TYPE	DFAV 14-KH	DFAV 14-KO	DFAV 14-LH	DFAV 14-LO
Frequency Range	2 to 52 MHz	2 to 52 MHz	2 to 45 MHz	2 to 45 MHz

ELECTRICAL SPECIFICATIONS					
supply voltage		5 V ± 5 %	5 V ± 5 %	3.2 V to 3.6 V	3.2 V to 3.6 V
supply current (no load)	≤ 25 MHz	≤ 10 mA	≤ 5 mA	≤ 5 mA	≤ 5 mA
	≤ 35 MHz	≤ 20 mA	≤ 20 mA	≤ 15 mA	≤ 15 mA
	> 35 MHz	≤ 30 mA	≤ 30 mA	≤ 20 mA	≤ 20 mA
output load		HCMOS 15 pF or 2 TTL	clipped sine 20kΩ//5 pF	HCMOS 15 pF or 1 TTL	clipped sine 20kΩ//5 pF
duty cycle	@ 2.5V @ 1.65V	≤ 45/55...55/45 %		≤ 45/55...55/45 %	
rise/fall times (10 to 90 %)		≤ 10 ns		≤ 10 ns	
high/low levels or output amplitude		≥ 3.5 V / ≤ 0.5 V	≥ 2 V p-p	≥ 2.7 V / ≤ 0.2 V	≥ 1.5 V p-p
start up		≤ 10 ms @4.75 V	≤ 10 ms @4.75 V	≤ 10 ms @ 3.2V	≤ 10 ms @ 3.2V
remark		duty cycle for frequencies > 30 MHz is 40/60%...60/40%			

FREQUENCY STABILITY			detailed tolerances [ppm]					
types	temperature range	model code	temp.	@ 25 °C	stability versus: Vcc range load ± 10 % ageing			pulling range positive function
all types	-10 to 60 °C	40D1	≤ ± 1	≤ ± 1	≤ ± 0.2	≤ ± 0.3	≤ ± 1	≥ ± 40
	-20 to 70 °C	40C2	≤ ± 2					
remarks			control voltage range: DFAV 14-K/ 2.5 V ± 2 V, DFAV 14-L/ 1.5 V ± 1.5 V					
			input impedance ≥ 10 kΩ					
			temperature stability is guaranteed @ nominal control voltage					
			ageing is 1 st year at 25 °C					

OPTIONS	CODE	
internal trimmer	A	≥ ± 5 ppm

ORDERING CODE	type + frequency + model code
Example	DFAV 14-KH 19.440 MHz 40D1