

SURFACE MOUNT LOW POWER VC-TCXO

TYPES DFAV S7-KHZ (5 V) & DFAV S7-LHZ (3.3 V)

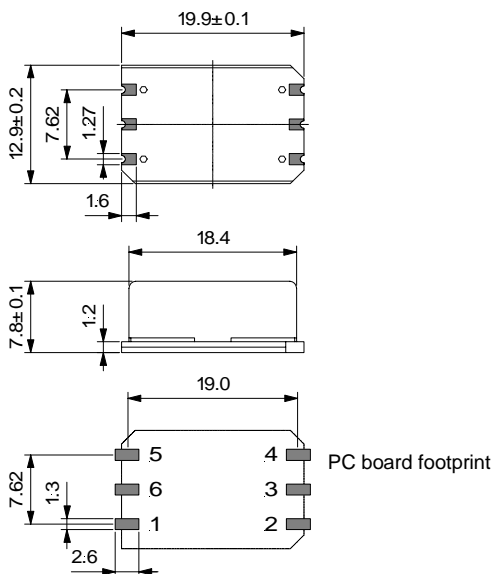
RECOMMENDED FOR NEW DESIGNS

SURFACE MOUNTABLE PACKAGE

5 V OR 3.3 V SUPPLY VOLTAGE

WIDE PULLING RANGE

LOW AGEING



Function	DFAV S7
V control	1
GND	2
N / C	3
Output	4
Vcc	5
E / D	6

TYPE	DFAV S7-KHZ	DFAV S7-KOZ	DFAV S7-LHZ	DFAV S7-LOZ
Frequency Range	2 to 50 MHz	2 to 50 MHz	2 to 45 MHz	2 to 45 MHz

ELECTRICAL SPECIFICATIONS	DFAV S7-KHZ	DFAV S7-KOZ	DFAV S7-LHZ	DFAV S7-LOZ
supply voltage	5 V ± 5 %	5 V ± 5 %	3.3 V ± 5 %	3.3 V ± 5 %
supply current (no load)	≤ 25 MHz ≤ 35 MHz ≥ 35 MHz	≤ 20 mA ≤ 30 mA ≤ 40 mA	≤ 10 mA ≤ 15 mA ≤ 20 mA	≤ 10 mA ≤ 15 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 (LH @ 1.65 V)	≤ 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 @ 4.75V	≤ 10 ms @ 4.75V	≤ 10 ms @ 3.15V	≤ 10 ms @ 3.15V
tri-state control on pin 6	High or open = enable, low = high Z			
Remarks	duty cycle for frequencies > 30 MHz is 40/60%...60/40%			

FREQUENCY STABILITY			detailed tolerances [ppm]					
Types	temperature range	model code	stability versus:				pulling range positive function	
			temp.	@ 25°C	Vcc range	load ± 10 %		ageing
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 S7-K / 2.5 V ± 2 V, DFAV S7-L/ 1.5 V ± 1.5 V					
			input impedance ≥ 10 kΩ					
			temperature stability is guaranteed @ 2.5 V control voltage					
			ageing is 1 st year at 25°C					

OPTIONS	CODE	
internal trimmer	A	≥ ± 5 ppm

ORDERING CODE	type + option code + frequency + model code
Example	DFAV S7-KHZ 19.440 MHz 40D1