fordahl
FREQUENCY CONTROL PRODUCTS

HIGH FREQUENCY STANDARD SIZE VC-TCXO

TYPE DFAV 36-MEC & DFAV 36-MX

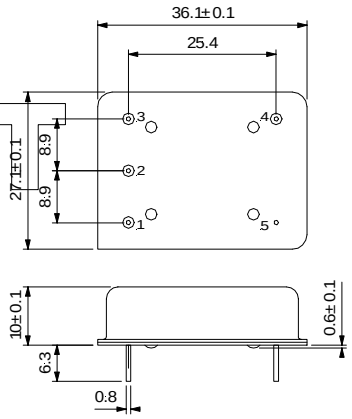
EXCELLENT PULLING VERSUS STABILITY RATIO

HIGH SINE WAVE OUTPUT LEVEL

WIDE FREQUENCY RANGE

WIDE PULLING RANGE

POSITIVE ECPinPS 100K COMPATIBLE



Function	DFAV 36
V control	1
NC	2
Vcc	3
Output	4
GND	5

NOT RECOMMENDED FOR NEW DESIGNS

TYPE	DFAV 36-MEC	DFAV 36-MX
Frequency range	25 to 160 MHz	25 to 160 MHz

ELECTRICAL SPECIFICATIONS		
supply voltage	5 V ± 5 %	5 to 12 V ± 5 %
supply current (no load)	≤ 50 mA	≤ 35 mA @ 5 V ≤ 35 mA @ 12 V
output load	PECL 100K (50 Ω to 3 V)	Sine 50 Ω ± 10 %
duty cycle	45/55...55/45 % @ 50 % level	
rise/fall times (20 to 80 %)	≤ 0.7 ns	
high/low levels or output amplitude	≥ 3.91 V / ≤ 3.45 V	≥ 13 dBm up to 80 MHz, ≥ 7 dBm above
sub harmonics and spurious	≤ -40 dBc	≤ -40 dBc
start up	≤ 10 ms @ 4.75V	≤ 10 ms

FREQUENCY STABILITY			detailed tolerances [ppm]					
types	temperature range	model code	stability versus: temp.	@ 25°C	Vcc ± 5 %	load ± 10 %	ageing	pulling range positive function
all types	0 to 70°C	40B1	≤ ± 1	≤ ± 1	≤ ± 0.2	≤ ± 0.3	≤ ± 1	≥ ± 40
	-20 to 70°C	40C2	≤ ± 2					
remarks	control voltage range 2.5 V ± 2 V input impedance ≥ 10 kΩ temperature stability is guaranteed @ 2.5 V control voltage ageing is 1st year at 25°C							

OPTIONS	CODE	
internal trimmer	A	≥ ± 5ppm

ORDERING CODE	type + frequency + model code / voltage code (MX only)
Example	DFAV 36-MX 155.520 MHz 40B1/5