

HIGH FREQUENCY SURFACE MOUNT VCXO

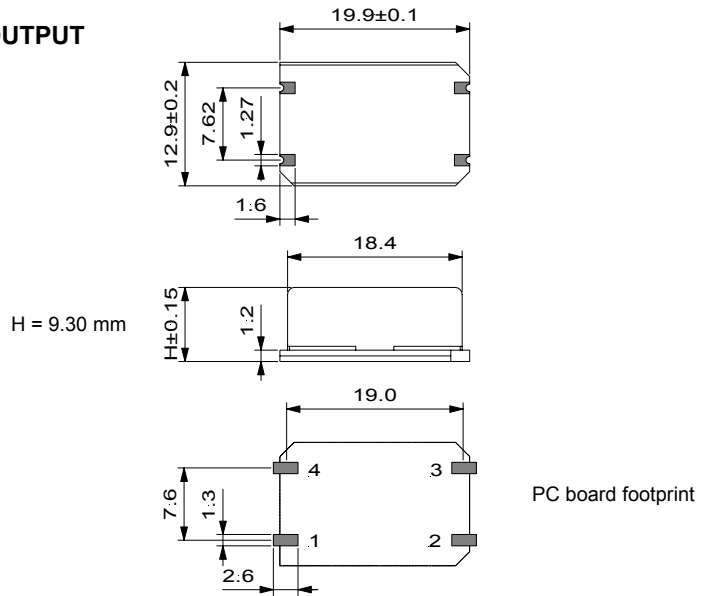
DFV S7-MEC & DFV S7-MO

FAST PECL 10KH OR CLIPPED SINE WAVE OUTPUT

POSITIVE SUPPLY VOLTAGE

WIDE PULLING RANGE

HIGH FREQUENCIES



Function	DFV S7-MEC/O
V control	1
GND	2
Output	3
Vcc	4

TYPE	DFV S7-MEC	DFV S7-MO
Frequency Range	40 to 160 MHz	

ELECTRICAL SPECIFICATIONS		
supply voltage	5 V ± 5 %	5 V ± 5 %
supply current	≤ 50 mA	≤ 50 mA
output load	PECL 10 KH (50 Ω to 3 V)	50 Ω, square wave, AC coupled
duty cycle (PECL @ 50 % level)	40/60...60/40 %	40/60...60/40 % @ 0 V
rise/fall times (20 to 80 %)	≤ 2 ns	
high/low levels or output amplitude	≥ 3.97 V / ≤ 3.45 V	0 dBm ± 2 dB
start up	≤ 10 ms @ 4.75 V	≤ 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		
all types	0 to 70°C	100B15	≤ ± 15	≤ ± 10	≤ ± 2	≤ ± 1	≤ ± 2	≥ ± 100	2.5V ± 2 V
		100B25	≤ ± 25						
remarks			linearity ± 20 %						
			input impedance ≥ 10 kΩ						
			modulation bandwidth ≥ 10 kHz @ -3 dB						
			ageing is 1 st year at 25°C						

ORDERING CODE	type + frequency + temperature code
Example	DFV S7-MEC 155.520 MHz 100B15