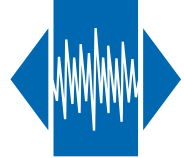


VXO-5S-4p

Miniature packaged SMD VCXO
CMOS

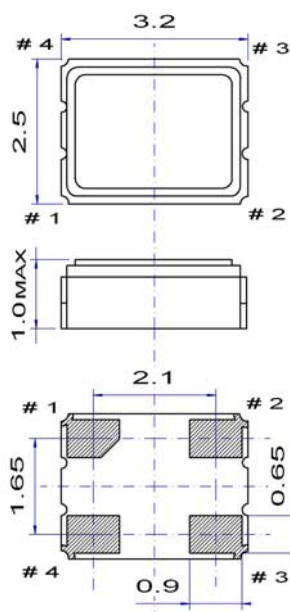
QuartzCom
the communications company



Features

- Applications: telecommunications, instrumentation, microwave
- Miniature package size: 3.2 x 2.5 x 1.0 mm
- Output frequency range 2 MHz to 54 MHz
- Low phase noise
- Highly shock and vibration resistant

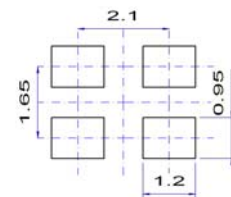
Parameter	Specification		
	VXO-5S18-4p	VXO-5S28-4p	VXO-5S3-4p
Frequency range	2 ~ 54 MHz		
Standard frequencies	27.0 MHz and 27.160 MHz		
Supply voltage	+1.8 V $\pm 5\%$	+2.8 V $\pm 5\%$	+3.3 V $\pm 5\%$
Supply current	3 ~ 8 mA		
Frequency stability (all inclusive) (*)	< ± 30 ppm < ± 50 ppm		
Output signal	CMOS		
Output voltage	$V_{OH} \geq 0.9 \times V_{dc}$ $V_{OL} \leq 0.1 \times V_{dc}$		
Output load	15 pF		
Symmetry	40 ~ 60 % @ $\frac{1}{2} V_{dc}$		
Rise / Fall time	6 ~ 10 ns		
Voltage control (Vc)	+0.9 V ± 0.9 V	+1.4 V ± 1.4 V	+1.65 V ± 1.654 V
Impedance (Vc to GND)	> 100 k Ω		
Frequency pulling range	> ± 80 ppm		1.8 Vdc
	> ± 90 ppm		2.8 Vdc
	> ± 90 ppm		3.3 Vdc
Modulation bandwidth	> 10 kHz		@ -3 dB
Phase noise	-125 dBc/Hz		@ 1 kHz
Operating temperature range	-20 ~ +70 °C		
Packaging units	tape & reel		500 or 1'000 pieces
(*) All inclusive frequency stability vs. temperature, tolerance, aging, supply & load variation			
Customer specifications on request			



Pin function

- # 1 Vc Voltage control
- # 2 GND
- # 3 Output
- # 4 Vdc

Example for solder pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature

