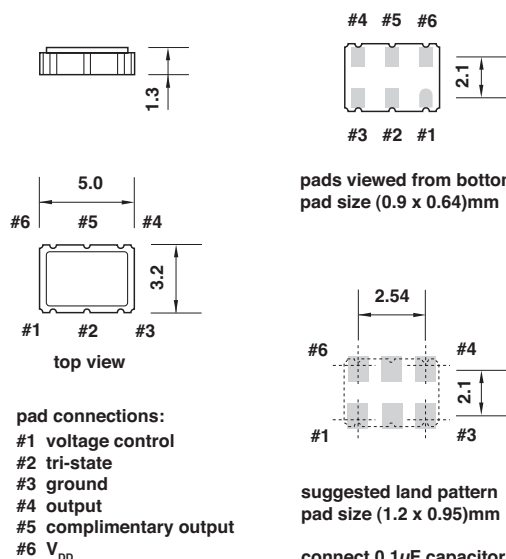


Type VW - L,V smd VCXO
(30 ~ 250)MHz,
output PECL or LVDS
(5.0 x 3.2)mm, height 1.3mm

A high frequency, smd, voltage controlled crystal oscillator manufactured over the frequency range of 30MHz to 250MHz. Good linearity, wide pulling range, +3.3Vd.c. supply.

A standard package providing an excellent combination of parameters within a miniature smd enclosure.

Supplied on tape and reel with 1000, 2000, 3000 and 5000 pieces per reel.

Dimensions(mm)

Frequency stability -vs- temperature:

TEMP. RANGE	COMBINED TOLERANCE	
(-10 +60)°C	±25ppm	±50ppm
(-20 +70)°C	±25ppm	±50ppm
(-40 +85)°C	±50ppm	

Tolerance inclusive of calibration tolerance at +25°C, temperature tolerance, load variation and supply voltage variation, first year ageing, vibration and shock

Electrical specification:

	PECL		LVDS		
	3.3Vd.c.		3.3Vd.c.		
	min.	max.	min.	max.	
supply voltage $V_{DD} \pm 5\%$	3.135	3.465	3.135	3.465	Vd.c.
frequency range	30	250	30	250	MHz
minimum pulling range	±50				ppm
control voltage range	0.3	3.0	0.3	3.0	V
supply current (60 ~ 250)MHz	-	100	-	75	mA
o/p high	2.275	-	-	1.6	V
o/p low	-	1.68	0.9	-	V
rise and fall time, t_r	-	1.0	-	1.0	nano sec.
start up time	-	3	-	3	milli sec.
tri-state: active o/p	$2.31V_{DD}$	-	$2.31V_{DD}$	-	V
tri-state: high impedance o/p	-	$0.99V_{DD}$	-	$0.99V_{DD}$	V
linearity	-	10	-	10	%
modulation bandwidth	20	-	20	-	kHz
input impedance	10	-	10	-	MegΩ
RMS phase jitter:					
$f_0 < 100\text{MHz}$	-	1.0	-	1.0	pico.sec
$100\text{MHz} < f_0 < 125\text{MHz}$	-	0.7	-	0.7	
$125\text{MHz} < f_0 < 150\text{MHz}$	-	0.5	-	0.5	
$150\text{MHz} < f_0$	-	0.3	-	0.3	
ageing	-	±3	-	±3	ppm
storage temperature range	(-55 +125)°C				°C

Ordering information

EXAMPLE	<i>type VW - L smd VCXO, 155.52MHz, ± 50ppm pulling, +3.3Vd.c., ± 25ppm(-10 +60)$^{\circ}$C, output PECL</i>
TFC PART NUMBER	VW - L 155.52M E M I
VW - L	<i>type: VW = VCXO type VW; (5.0 x 3.2)mm package, L; PECL output, V; LVDS output</i>
155.52	<i>frequency: 155.52MHz, frequency range (30 ~ 250)MHz</i>
E	<i>supply voltage: E = +3.3Vd.c.</i>
M	<i>frequency stability: M = ± 25ppm</i>
I	<i>temperature range: I = (-10 +60)$^{\circ}$C</i>
OPTIONS	
output	<i>L: PECL, V: LVDS</i>
frequency stability	<i>M: ± 25ppm, P: ± 50ppm</i>
temperature range	<i>I: (-10 +60)$^{\circ}$C, C: (-20 +70)$^{\circ}$C, L: (-40 +85)$^{\circ}$C</i>