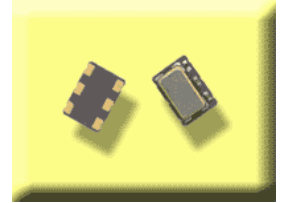
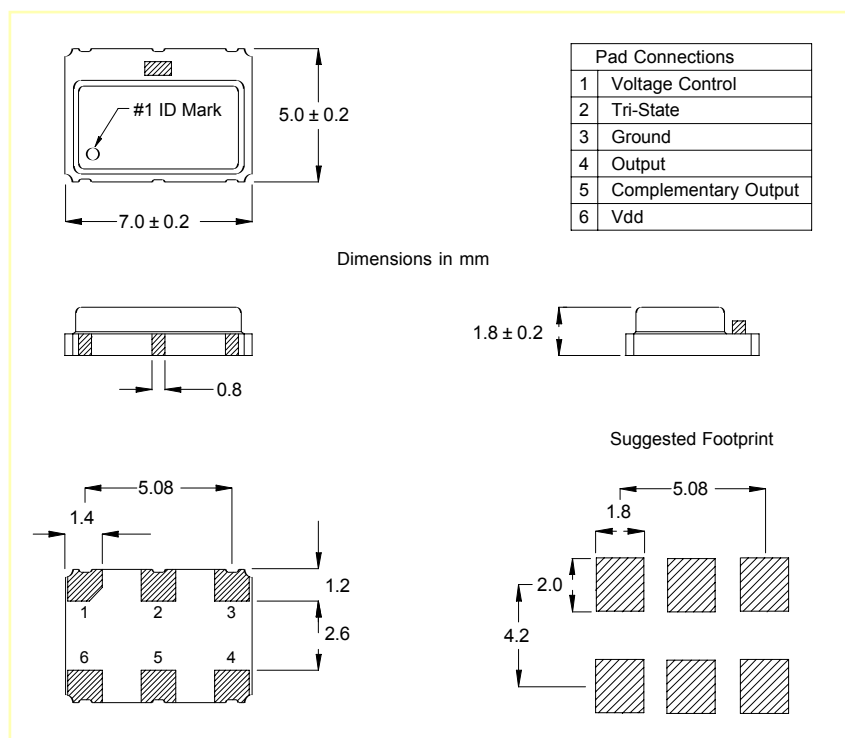


## ACT9CSV - 6 PECL/LVDS

The **ACT9CSV-6** is a family of 6-pad miniature surface mount Voltage Controlled Crystal Oscillators (VCXO) housed in a 7 x 5 mm ceramic package with a metal lid. Only 1.8mm high it is ideal for high density automatic assembly printed circuit boards. These devices can be tuned between  $\pm 50\text{ppm}$  &  $\pm 150\text{ppm}$  from the nominal frequency by varying the voltage on pad 1.



Parameter	Symbol	Specification	Condition
Frequency Range	$f_o$	25.00 ~ 650.00 MHz	
Temp Operating Range	$T_{opr}$	0 to +70°C & -40 ~ +85°C	Please specify
Storage Temp Range	$T_{stg}$	-55 to 125°C	
Frequency Stability	$\Delta f/f_o$	$\pm 20\text{ppm}$ ~ $\pm 100\text{ppm}$	
Supply Voltage	$V_{dd}$	$3.3V_{DC} \pm 5\%$	
Supply Current (max)	$I_{op}$	85mA - 25.0 ~ 160.0 MHz 95mA - 161.0 ~ 300.0 MHz 100mA - 301.0 ~ 650 MHz 45mA - 25.0 ~ 100.0 MHz 70mA - 101.0 ~ 650.0 MHz	PECL PECL PECL LVDS LVDS
Duty Cycle	$T_w/t$	40/60% ( $V_{CC} - 1.3V_{DC}$ , PECL), ( $V_{CC} - 1.25V_{DC}$ , LVDS)	
Rise & Fall Time	$T_r/T_f$	0.6nS max	@ 20 / 80%
Output Load		50Ω into $V_{CC} - 2.0V_{DC}$ (PECL), 50Ω differential load (LVDS)	
Output Voltage	$V_{OL}$ $V_{OH}$	$V_{CC} - 1.62V_{DC}$ max (PECL), $1.1925V_{DC}$ max (LVDS) $V_{CC} - 1.025V_{DC}$ max (PECL), $2.175V_{DC}$ min (LVDS)	
Voltage Control	$V_c$	$1.65V_{DC} \pm 1.65V$	
Pulling Range	$\Delta f_c$	$\pm 50\text{ppm}$ ~ $\pm 150\text{ppm}$	
Jitter		10ps RMS max	
Aging	$F_a$	$\pm 3\text{ppm}$ / year max	



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