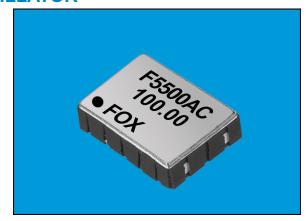
SMD COMPLEMENTARY OUTPUT ECL OSCILLATOR

F5500

The F5500 SMD ECL oscillator features the high frequency range of ECL in a more compact surface mount package. A choice of negative (F5500AC) or positive (F5500BC) supply voltages, both with complementary outputs are available.

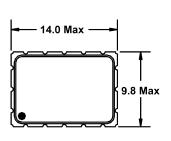
FEATURES

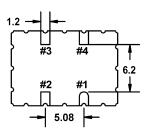
- High Frequency Range
- Negative or Positive Supply Voltages (PECL)
- Complementary Outputs
- Available in -40°C \sim +85°C (F5500ACR, F5500BCR)



• ELECTRICAL CHARACTERISTICS						
PARAMETERS		FREQUENCY RANGE	CONDITIONS	MIN	MAX	UNITS
Frequency Range (Fo)				30.000	170.000	MHz
Frequency Stability		30.000 ~ 170.000	All Conditions *	-100	+100	PPM
Temperature Range		30.000 ~ 170.000				
Operating	(TOPR)			-10	+70	°C
Storage	(TSTG)			-55	+125	
Supply Voltage		30.000 ~ 170.000				
F5500AC	(VEE)			-5.46	-4.94	V
F5500BC	(VCC)			+4.75	+5.25	
Input Current	(IDD)	30.000 ~ 170.000	F5500AC		50	mA
			F5500BC		60	
Output Symmetry		30.000 ~ 170.000	50% Vp-p	40	60	%
Rise Time	(TR)	30.000 ~ 170.000	20%Vp-p ~ 80%Vp-p		2.0	nS
Fall Time	(TF)		$80\%\text{Vp-p} \sim 20\%\text{Vp-p}$		2.0	
Output Voltage	(VOL)	30.000 ~ 170.000	F5500AC		-1.60	V
			F5500BC		+3.42	
	(VOH)		F5500AC	-0.98		
			F5500BC	+4.00		
Output Load		30.000 ~ 170.000	ECL Load		5	Gates
Overlap Time		30.000 ~ 170.000	50% Vp-p		0.5	nS
Start-up Time	(Ts)	30.000 ~ 170.000			10	mS

^{*} Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. See page 44 for mechanical specifications, test circuits, and output waveform. All specifications subject to change without notice. Rev. 03/02/00





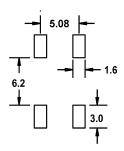
Pin Connections (F5500AC)

#1 Output 2 #3 Output 1 #2 -5.2V (Case) #4 GND

Pin Connections (F5500BC)

#1 Output 2 #3 Output 1 #2 GND (Case) #4 +5.0V 3.2 Max

Recommended Solder Pad Layout



All dimensions are in millimeters.

See page 74 for tape and reel specifications.