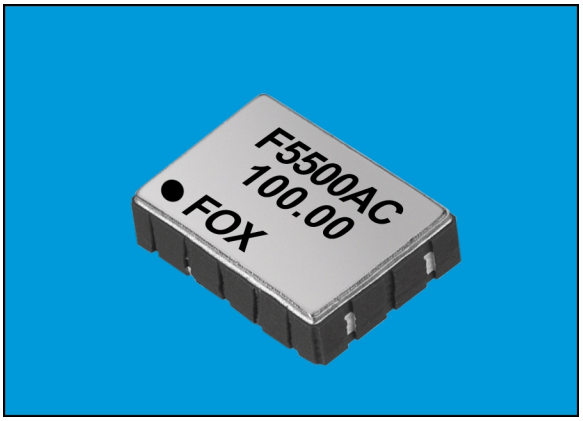
# SMD COMPLEMENTARY OUTPUT ECL OSCILLATOR

# 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.



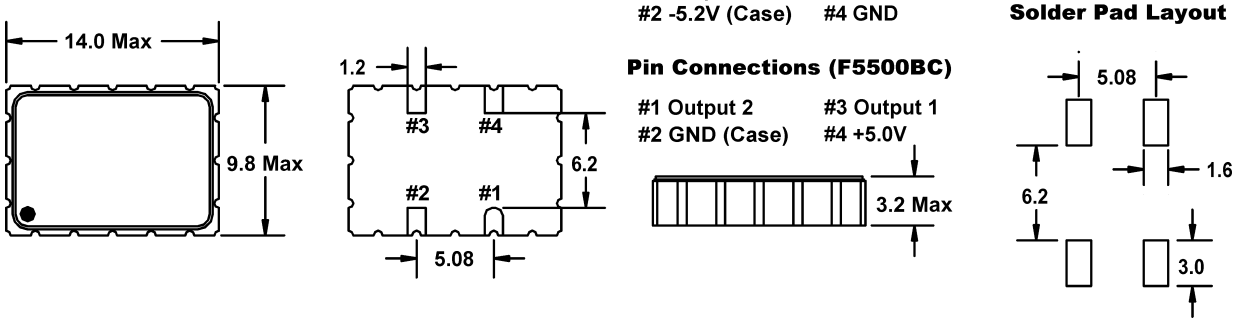

## FEATURES

- High Frequency Range
- Negative or Positive Supply Voltages (PECL)
- Complementary Outputs
- Available in -40ºC ~ +85ºC (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 | ºC |
| 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%Vp-p ~ 20%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 25ºC 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




*All dimensions are in millimeters.*

See page 74 for tape and reel specifications.



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