

VF540

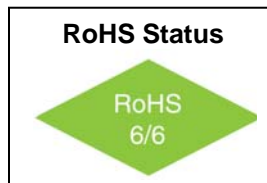
XO 3.3V, 5.0V

9x14mm SMD, HCMOS/TTL



Features

- Very Low Phase Jitter at all Frequencies
- Extended Temperature available
- Tight Duty Cycle available
- Tristate Control Standard
- EMI Shielded



Electrical Specifications

| Parameter | Symbol | Condition | Min | Typ | Max | Unit | Note |
|-----------------------|--------------------------------|--|--------------------|--------------|--|------|----------------------------|
| Frequency Range | F | | 1.5 | | 130 | MHz | |
| Frequency Stability | $\Delta F/F$ | Overall conditions of : calibration, temp., 10 years aging, shock, vibration | | | ± 20 ± 25 ± 50 ± 100 ± 500 | ppm | See "How to Order" chart |
| Operating Temperature | T | | 0 -40 -55 | | +70 +85 +125 | °C | |
| Output | HCMOS / TTL | | | | | | |
| Load | 10 TTL gates or 50pF max. | | | | | | |
| Supply Voltage | V _{cc} | | 4.75 3.15 | 5.00 3.30 | 5.25 3.45 | V | See "How to Order" chart |
| Supply Current | I _{cc} | 15pF load, 50MHz | | | 40 | mA | Load & Frequency dependent |
| Duty Cycle | | @1.4V | 40 | 50 | 60 | % | 5%, 2.5% available |
| Rise / Fall Time | T _r /T _f | 0.4V to 2.4V 20% to 80% | | | 1.5 4.0 | ns | |
| Logic "1" Level | V _{OH} | Max Load | 0.9V _{cc} | | | V | |
| Logic "0" Level | V _{OL} | Max Load | | | 0.1V _{cc} | V | |
| Start-up Time | T _s | | | 2 | 10 | ms | |
| Phase Jitter | | 1 σ | | | 1 | ps | f _j >1KHz |

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Tristate Function

| Parameter | Symbol | Condition | Min | Typ | Max | Unit | Note |
|----------------------|---|-----------|-----|-----|-----|------|------|
| Enable /Disable Time | Te/Td | | | | 100 | ns | |
| Tristate Function | Input HIGH (>2.5V) or floating: ACTIVE Input LOW (<0.5V): INFINITE IMPEDANCE | | | | | | |

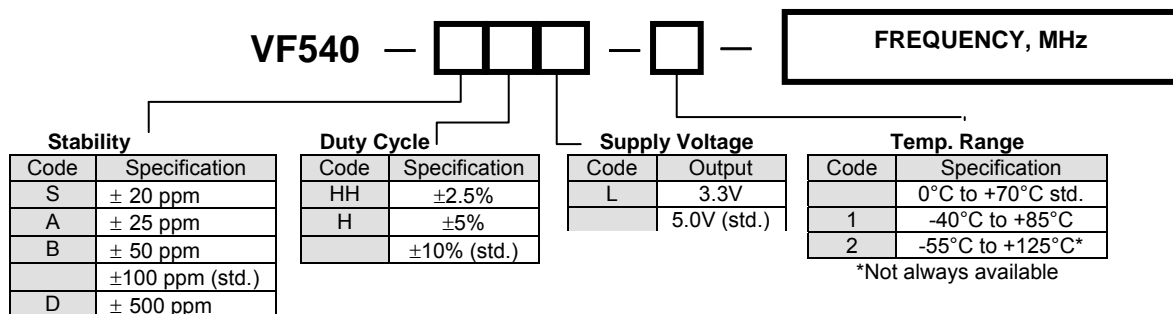
Absolute Maximum Ratings

| Parameter | Symbol | Condition | Min | Typ | Max | Unit | Note |
|---------------------------|--------|-----------|------|-----|-------|------|------|
| Supply Break Down Voltage | Vcc | | -0.5 | | 7.0 | V | |
| Storage Temperature | Ts | | -55 | | +125° | °C | |

Environmental and Mechanical

| Parameter | Specification |
|----------------------|---|
| Mechanical Shock | Per MIL-STD-202, Method 213, Condition E |
| Thermal Shock | Per MIL-STD-883, Method 1011, Condition A |
| Vibration | Per MIL-STD-883, Method 2007, Condition A |
| Soldering Conditions | 260°C for 10s max. 230°C for 90s max. |
| Hermetic Seal | Leak rate less than 5×10^{-8} atm.cc/s of helium |

How to Order



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Package Dimensions and Pin Connections

