

Sonet/SDH OC-3 through OC-48 VCXOS

	434Y2600 Series Conventional Multiplication techniques	430Y3100 Series Advanced PLL techniques	430Y3200 Series Advanced PLL techniques
Center Frequency	622.08 MHz	155.52 MHz, 622.08 MHz (other frequencies available)	155.52 MHz, 622.08 MHz
Output	ECL/PECL Complementary outputs	ECL/PECL Single ended output	ECL/PECL Complementary outputs
Jitter	≤10 ps rms	≤8 ps rms	
Control Voltage	ECL: 0 to −5 V PECL: 0 to +5 V	ECL: 0 to −5 V PECL: 0 to +5 V	
Input Impedance	>50kΩ	>50kΩ	
Modulation rate	dc to 1 kHz (Higher modulation rates available)	dc to 1 kHz (Higher modulation rates available)	
Stability	±20 ppm over temperature range 0°C to +70°C or -40°C to +85°C	±20 ppm over temperature range 0°C to +70°C or -40°C to +85°C	
Deviation	Sufficient to maintain lock for 10 years	Sufficient to maintain lock for 10 years	
Supply Voltage (±5%)	ECL - 5.2 Vdc ±5%, PECL +5 Vdc ±5%		
Aging Rate	3-5 ppm first year, 2 ppm/year thereafter; less than 20 ppm total over 10 years	3-5 ppm first year, 2 ppm/year thereafter; less than 20 ppm total over 10 years	
Dimensions	0.80 x 1.40 x 0.20 (20.3 x 36 x 5.1 mm) 24 pin Double DIP.	4 pin DIP and surface mount. 14 pin flatpack.	5 pin DIP and surface mount. 14 pin flatpack.

	430Y5200 Series VCXO's SDH (STM-8) and SONET (OC-24) Applications	487Y4300 Series VCXO's SDH (STM-16) and SONET (OC-48) Applications
Center Frequency	1.24416 GHz (other frequencies available contact factory)	2.48832GHz
Output	ECL/PECL (Complementary output)	≥0 dBm into 50Ω, sinewave
Jitter	≤8 ps rms (contact factory for lower jitter)	≤5 ps rms (contact factory for lower jitter)
Stability	±20 ppm over 0°C to +70°C (contact factory for wider temperature applications)	±20 ppm over 0°C to +70°C (contact factory for wider temperature applications)
Deviation	Sufficient to maintain lock for 10 years	Sufficient to maintain lock for 10 years
Control Voltage	ECL: 0 to -5V PECL: 0 to +5V	0 to +5 V
Transfer function	ECL: Negative (lowest frequency at 0V) PECL: Positive (lowest frequency at 0V)	Positive (lowest frequency at 0V)
Linearity	±20 % smooth monotonic characteristic (±10% linearity available)	±20 % smooth monotonic characteristic (±10% linearity available)
Input Impedance	>50kΩ	>50kΩ
Modulation rate	dc to 1 kHz (higher modulation rates available)	dc to 1 kHz (higher modulation rates available)
Supply Voltage (±5%)	ECL: -5.2 Vdc @ 100 mA typical PECL: +5 Vdc @ 100 mA typical	+5 Vdc ±5% @ less than 200 mA
Aging Rate	3-5 ppm first year, 2 ppm/year thereafter; less than 20 ppm total over 10 years	3-5 ppm first year, 2 ppm/year thereafter; less than 20 ppm total over 10 years
Dimensions	5 pin single DIP, surface mount, 14 pin flatpack	16 pin flatpack