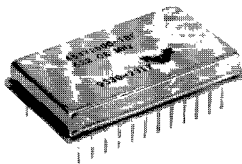


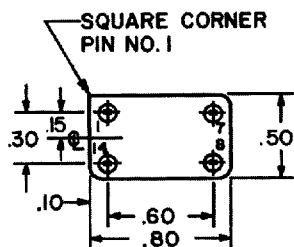
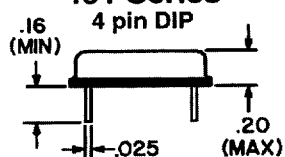
SONET /SDH OC-12 Applications



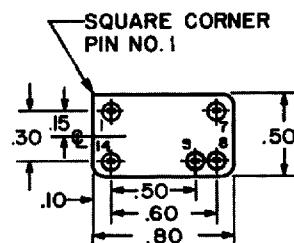
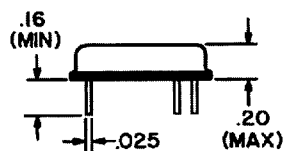
DOUBLE DIP

SINGLE DIP

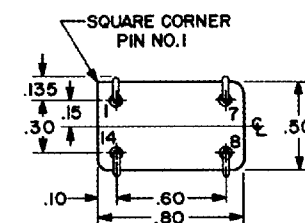
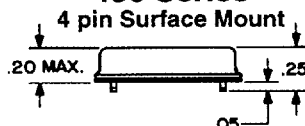
	434Y2600 Series	430Y3100 Series	430Y3200 Series																																																												
Center Frequency	622.08 MHz	622.08 MHz (other frequencies available including 155.52 MHz)	622.08 MHz																																																												
Output	ECL/PECL	ECL/PECL Single Ended Ouput	ECL/PECL Complementary outputs																																																												
Jitter	≤10 ps rms	≤8 ps rms via advanced PLL techniques																																																													
Control Voltage	ECL: 0 to -5V PECL: 0 to +5V	ECL: 0 to -5V PECL: 0 to +5V																																																													
Transfer Function (freq vs control voltage)	ECL: Negative (lowest frequency at 0V) PECL: Positive (lowest frequency at 0V)	ECL: Negative (lowest frequency at 0V) PECL: 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)																																																													
Stability	±20 ppm over temperature range	±20 ppm over temperature range																																																													
Deviation	Sufficient to maintain lock for 10 years	Sufficient to maintain lock for 10 years																																																													
Supply Voltage (±5%)	see below	see below																																																													
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; <20 ppm over 10 years																																																													
Mechanical (see page 88)	0.8" x 1.4" x 0.2" (20.3 x 36 x 5.1 mm) 14 pin flatpack.	4 pin DIP, surface mount and 14 pin flatpack sizes listed below	5 pin DIP, surface mount and 14 pin flatpack sizes listed below																																																												
Package	Resistance welded 24 pin double DIP	see page 88	see page 88																																																												
How to Order	<table><tr><th>Model</th><th>Temperature Range</th><th>Output</th><th>Supply Voltage</th></tr><tr><td>434Y2600</td><td>0 to +70°C</td><td>ECL</td><td>-5.2 Vdc</td></tr><tr><td>434Y2600-1</td><td>0 to +70°C</td><td>PECL</td><td>+5 Vdc</td></tr><tr><td>434Y2600-2</td><td>-40 to +85°C</td><td>ECL</td><td>-5.2 Vdc</td></tr><tr><td>434Y2600-3</td><td>-40 to +85°C</td><td>PECL</td><td>+5 Vdc</td></tr></table>	Model	Temperature Range	Output	Supply Voltage	434Y2600	0 to +70°C	ECL	-5.2 Vdc	434Y2600-1	0 to +70°C	PECL	+5 Vdc	434Y2600-2	-40 to +85°C	ECL	-5.2 Vdc	434Y2600-3	-40 to +85°C	PECL	+5 Vdc	<table><tr><th>Model</th><th>Temperature Range</th><th>Output</th><th>Supply Voltage</th></tr><tr><td>43□Y3100</td><td>0 to +70°C</td><td>ECL</td><td>-5.2 Vdc</td></tr><tr><td>43□Y3100-1</td><td>0 to +70°C</td><td>PECL</td><td>+5 Vdc</td></tr><tr><td>43□Y3100-2</td><td>-40 to +85°C</td><td>ECL</td><td>-5.2 Vdc</td></tr><tr><td>43□Y3100-3</td><td>-40 to +85°C</td><td>PECL</td><td>+5 Vdc</td></tr></table> ↑ "1" 4 pin DIP 0.8" x 0.5" x 0.2" (20.3 x 12.7 x 5.1 mm) "6" 4 pin Surface Mt 0.8" x 0.5" x 0.25" (20.3 x 12.7 x 6.4 mm) "7" 14 pin Flatpack 0.8" x 0.6" x 0.165" (20.3 x 15.2 x 4.2 mm)	Model	Temperature Range	Output	Supply Voltage	43□Y3100	0 to +70°C	ECL	-5.2 Vdc	43□Y3100-1	0 to +70°C	PECL	+5 Vdc	43□Y3100-2	-40 to +85°C	ECL	-5.2 Vdc	43□Y3100-3	-40 to +85°C	PECL	+5 Vdc	<table><tr><th>Model</th><th>Temperature Range</th><th>Output</th><th>Supply Voltage</th></tr><tr><td>43□Y3200</td><td>0 to +70°C</td><td>ECL</td><td>-5.2 Vdc</td></tr><tr><td>43□Y3200-1</td><td>0 to +70°C</td><td>PECL</td><td>+5 Vdc</td></tr><tr><td>43□Y3200-2</td><td>-40 to +85°C</td><td>ECL</td><td>-5.2 Vdc</td></tr><tr><td>43□Y3200-3</td><td>-40 to +85°C</td><td>PECL</td><td>+5 Vdc</td></tr></table> ↑ "1" 5 pin DIP 0.8" x 0.5" x 0.2" (20.3 x 12.7 x 5.1 mm) "6" 5 pin Surface Mt 0.8" x 0.5" x 0.25" (20.3 x 12.7 x 6.4 mm) "7" 14 pin Flatpack 0.8" x 0.6" x 0.165" (20.3 x 15.2 x 4.2 mm)	Model	Temperature Range	Output	Supply Voltage	43□Y3200	0 to +70°C	ECL	-5.2 Vdc	43□Y3200-1	0 to +70°C	PECL	+5 Vdc	43□Y3200-2	-40 to +85°C	ECL	-5.2 Vdc	43□Y3200-3	-40 to +85°C	PECL	+5 Vdc
Model	Temperature Range	Output	Supply Voltage																																																												
434Y2600	0 to +70°C	ECL	-5.2 Vdc																																																												
434Y2600-1	0 to +70°C	PECL	+5 Vdc																																																												
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434Y2600-3	-40 to +85°C	PECL	+5 Vdc																																																												
Model	Temperature Range	Output	Supply Voltage																																																												
43□Y3100	0 to +70°C	ECL	-5.2 Vdc																																																												
43□Y3100-1	0 to +70°C	PECL	+5 Vdc																																																												
43□Y3100-2	-40 to +85°C	ECL	-5.2 Vdc																																																												
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431 Series

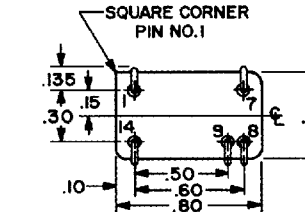
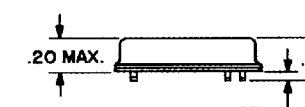
ECL		PECL	
Pin	Function	Pin	Function
1	VCXO Input	1	VCXO Input
7	-5.2V	7	OV, case
8	Output	8	Output
14	OV, case	14	+5V

5 pin DIP

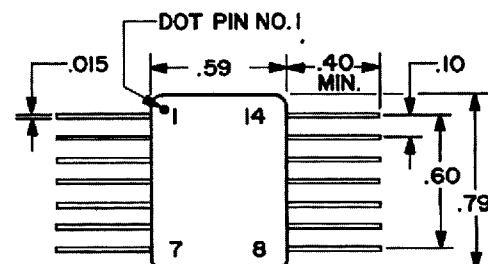
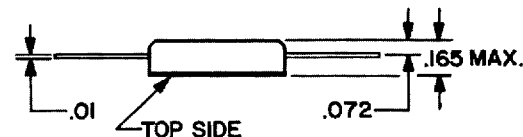
ECL		PECL	
Pin	Function	Pin	Function
1	VCXO Input	1	VCXO Input
7	-5.2V	7	OV, case
8	Output Q	8	Output Q
9	Output Q	9	Output Q
14	OV, case	14	+5V

436 Series

ECL		PECL	
Pin	Function	Pin	Function
1	VCXO Input	1	VCXO Input
7	-5.2V	7	OV, case
8	Output	8	Output
14	OV, case	14	+5V

5 pin Surface Mount

ECL		PECL	
Pin	Function	Pin	Function
1	VCXO Input	1	VCXO Input
7	-5.2V	7	OV, case
8	Output Q	8	Output Q
9	Output Q	9	Output Q
14	OV, case	14	+5V

437 Series
14 pin Flatpack**Single Ended Output**

ECL		PECL	
Pin	Function	Pin	Function
1	VCXO Input	1	VCXO Input
7	-5.2V	7	OV, case
8	Output	8	Output
14	OV, case	14	+5V

All other pins are N/C

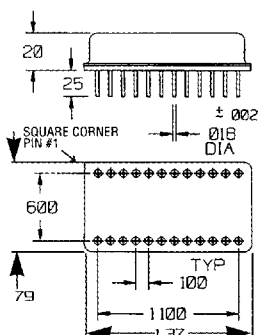
All other pins are N/C

Complementary Outputs

ECL		PECL	
Pin	Function	Pin	Function
1	VCXO Input	1	VCXO Input
7	-5.2V	7	OV, case
8	Output Q	8	Output Q
9	Output Q	9	Output Q
14	OV, case	14	+5V

All other pins are N/C

All other pins are N/C

VCXO
24 PIN DOUBLE DIP
434Y2600

ECL		PECL	
PIN	FUNCTION	PIN	FUNCTION
5	VCXO INPUT	5	VCXO INPUT
12	-5.2 VDC	12	OV, CASE
13	RF OUTPUT Q	13	RF OUTPUT Q
14	RF OUTPUT Q	14	RF OUTPUT Q
15	RF RETURN, CASE	15	RF RETURN, CASE
24	OV, CASE	24	+5 VDC
OTHERS	DO NOT USE*	OTHERS	DO NOT USE*

*PIN MAY BE USED INTERNALLY



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