

● CO17 & CO19 Series

FEATURES

- HCMOS Output
- Tri-State Enable/Disable
- 14 Pin Full Size
- Industry Standard
- Wide Frequency Range
- Resistance Weld Package



ELECTRICAL SPECIFICATIONS

Parameter		Condition	CO17	CO19
Frequency Range	Fo		1.0 ~ 150.0MHz	
Frequency Stability*		All Condition*	±25ppm, ±50ppm, ±100ppm	
Operating Temperature Range	T _{OPR}		0°C ~ 70°C (-40°C ~ +85°C option)	
Storage Temperature Range	T _{STG}		-55°C ~ +125°C	
Power supply Voltage	V _{DD}		1.8V ±5%	2.5V ±5%
Aging (First Year)		25°C ±3°C	±5ppm	
Supply Current	I _{DD}	0.5MHz to 23.999MHz	8mA Max	10mA Max
		24.000MHz to 49.999MHz	15mA Max	20mA Max
		50.000MHz to 69.999MHz	25mA Max	30mA Max
		70.000MHz to 150.000MHz	30mA Max	40mA Max
Output Symmetry	Sym	1/2 V _{DD}	40/60% (45/55% Option)	
Rise time	T _r	10% V _{DD} ~ 90% V _{DD}	5 nS Max	5 nS Max
Fall Time	T _f	90% V _{DD} ~ 10% V _{DD}	5 nS Max	5 nS Max
Output Voltage	V _{OH}		90% V _{DD} min	
	V _{OL}		10% V _{DD} max	
Output load	HCMOS Load		~50M:50pF	~50M:30pF
			~70M:30pF	~150M:15pF
		~150M:15pF		
Start-up Time		T _s	10mS Max	
Pin 1, tri-state function			Pin 1=H or open... Output active at pin 8 Pin 1=L... High impedance at pin 8	

*Include: 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration

DIMENSIONS

Unit: mm

HCMOS Test Circuit

**The holes stay and probe capacitance
Enable/Disable function

HCMOS Output Waveform

Enable/Disable Function	
Input (Pin1)	Output (Pin8)
Open	Enable
V _{OH} ≥ 2.2V _{DD}	Enable

Pin	Connection
#1	Tri-State /NC
#7	GND
#8	Output
#14	V _{DD}

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