

● **CO27 & CO29 Series**

FEATURES

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



ELECTRICAL SPECIFICATIONS

Parameter		Condition	CO27	CO29
Frequency Range	F ₀		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	S _{ym}	AT 1/2V _{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 5 Pin 1 =L... high impedance at pin 5	

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

DIMENSIONS

Unit: mm

HCMOS Test Circuit

**Includes stray and parasitic capacitance

Enable/Disable function

HCMOS Output Waveform

Enable/Disable Function	
Input (Pin1)	Output (Pin5)
Open	Enable
V _{IN} ≥ 2.2V _{CC}	Enable

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

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