

DFA S2

High Performance TCXO

5 x 7 SMD, HCMOS

Features

- 5MHz to 26MHz frequency range
- HCMOS output
- Very Tight stability: ± 70 ppb
- Analog temperature compensation



RoHS Status

**Directive
2002/95/EC**

Applications

- Transmissions
- SDH/SONET
- Microwave

Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Note
Frequency Range	F		5		26	MHz	
Frequency Stability	$\Delta F/F$	Vs. Operating Temp. -20°C to 70°C			± 70	ppb	"How to Order" Chart
		Vs. Supply Voltage			± 0.1	ppm	
		Vs. Aging/First Year @ 25°C			± 1		
		Calibration @ 25°C			± 1		
Operating Temperature	T		-40		85	°C	"How to Order" Chart
Supply Voltage	V _{CC}		4.75	5	5.25	V	"How to Order" Chart
			3.135	3.3	3.465		
			2.85	3.0	3.15		
Supply Current		No load	5.0V	3.3V	3.0V	mA	
			≤ 10	≤ 7	≤ 6		
Output Load		HCMOS 15 pF or 1 TTL					
Duty Cycle		@ 50% level	45/55		55/45	%	

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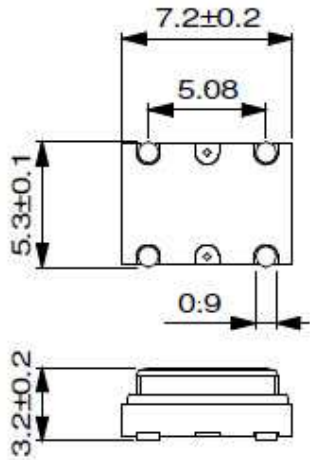
Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Note	
Rise/Fall Times		10% to 90%			5	ns		
High Levels		3.0V 3.3V 5.0V	2.5 2.8 4.5			V	Output Amplitude	
Low Levels		3.0V 3.3V 5.0V			0.3 0.3 0.5			
Start-up		3.0V @ 2.85V 3.3V @ 3.15V 5.0V @ 4.75V			10	ms		
Tri-state Control on Pin 1		high or open = enable, low = high Z						

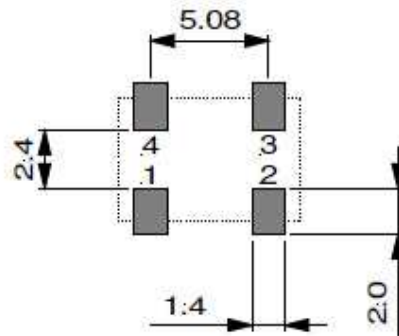
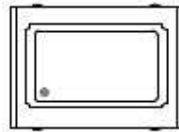
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Pin #	Connection
1	Tri-state (E / D) or V Control
2	GND
3	Output
4	V _{CC}



PC board footprint

How to Order

DFA S2 — L H Z 26 MHz E 78

Supply Voltage	
Code	Specification
K	5.0V
L	3.3V
U	3.0V

Output Type	
Code	Specification
H	HCMOS

Options			
Code	Specification		
V	Voltage Control (positive slope)		
	5.0V	3.3V	3.0V
	≥ ± 5 ppm, ≤ ± 15 ppm for 2.5V ±2V	≥ ± 5 ppm, ≤ ± 15 ppm for 1.65V ±1.35V	≥ ± 5 ppm, ≤ ± 15 ppm for 1.5V ±1.0V
Z	Tri-state		

Frequency

Temperature Range	
Code	Specification
C	-20 to 70°C
E	-40 to 85°C

Stability	
Code	Specification
78	± 70 ppb
17	± 100 ppb
27	± 200 ppb

Available Frequency Stabilities over Operating Temperature Ranges

Code	Temperature Range	± 200 ppb	± 100 ppb	± 70 ppb
C	-20°C to 70°C	°	◇	◇
E	-40°C to 85°C	◇	◇	°

◇ Not available for all frequencies. Please consult factory.

° Not available