Dynamic Engineers Inc.

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Drawing No: MD150071-1

Features and Benefits

10.0 MHz to 1450 MHz operating frequency range for 3.3V supply 18 mA typical
Less than +/- 25 ppm over -40C to +85C
LVDS outputs
7.0 x 5.0 x 1.8 mm smd
3.3V supply voltage
600 fs typical phase jitter

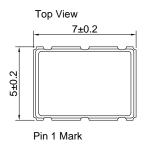
Typical Applications

Telecom Networks
Data Communications

Description

The XPF7500R series with LVDS outputs utilizes a low noise configurable IC technology to deliver output frequencies with up to six significant digits past the decimal point.

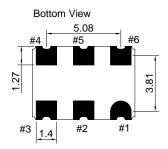
Mechanical Drawing & Pin Connections

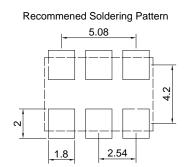


PIN	Function
PAD #1	Tri-State
PAD #2	N/C
PAD #3	GND
PAD #4	Output
PAD #5	Complimentary
PAD #6	Supply Voltage

Side View

Unit : mm







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Specifications

Oscillator Specification	Sym	Sym Condition	Value			Unit	Note	
	Sylli		Min.	Тур.	Max.	Ollit	Note	
Nominal Frequency	F _{nom}			212.5		MHz		
Output Wave Form				LVDS	•			
Output Voltage Level "1"			1.4		1.6	V		
Output Voltage Level "0"			0.9		1.1	V		
Output Load				Differential				
Duty Cycle			45	50	55	%		
Rise and Fall Times		20%<>80% of the PECL wave form		0.2	0.4	nSec		
Start Time					10	mSec		
Output Enable Time/Disable Time					50/200	ns		
Integrated Phase Jitter		12KHz to 20MHz		0.6		ps		
		0.7% of V _{DD} (min.) or no connection to	enable out	out LVCMOS/L	VTTL level			
Tri-State Function		0.3% of V _{DD} (max.) to disable output(high impedance) LVCOMS/LVTTL level						
Power Supply		le	vei					
Supply Voltage	V _{cc}		3.135	3.3	3.465	V		
Supply Current	00			18		mA		
Frequency Stability								
Vs. Temperature		From -40°C to +85°C			+/-25	ppm		
Aging		First year			+/-2	ppm		
		Over 10 years			+/-10	ppm		
Phase Noise								
		@10Hz		-53		dBc/Hz		
		@100Hz		-86		dBc/Hz		
		@1KHz		-109		dBc/Hz		
Phase Noise		@10KHz		-118		dBc/Hz		
		@100KHz		-121		dBc/Hz		
		@1MHz		-133		dBc/Hz		
		@10MHz		-151		dBc/Hz		
Phase Jitter		12KHz to 20MHz RMS		0.6		ps		
Environmental Conditions								
Parameter	Refere	Reference Std.			Test Condition			
Operating Temperature range	-40°C t	o +85°C						
Storage Temperature range	-55°C t	o +150°C					•	