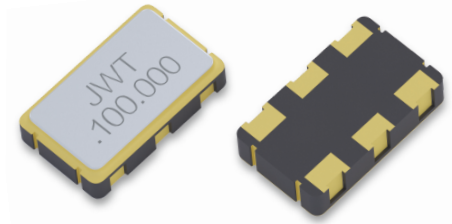




7.0x5.0 mm SMD Oscillator

DYA Series



Product Features

1. Output type : LVDS/LVPECL/HCSL
2. Excellent low phase noise and jitter
3. Tri-State function available

Applications

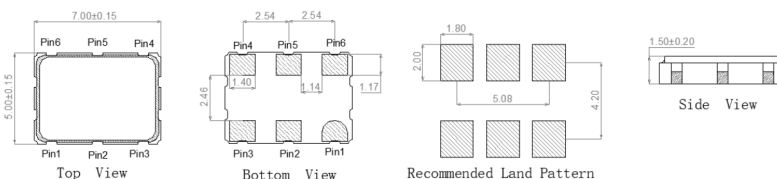
1. Telecom&Netcom (Optical communication/
RF units/Switches/Servers/Base stations)
2. Automotive

Specifications

Model		DYA7050					
		LVDS		LVPECL		HCSL	
Output type		1.71~1.89V/2.375~3.63V		2.97~3.63V		1.71~1.89V/2.375~3.63V	
		Min	Max	Min	Max	Min	Max
Frequency range		20MHz~156.250MHz		20MHz~156.250MHz		20MHz~156.250MHz	
Oscillation mode		Fundamental or 3rd overtone					
Frequency tolerance at 25°C±3°C		±20ppm		±20ppm		±20ppm	
Operating temperature range		-40°C~125°C		-40°C~125°C		-40°C~125°C	
Frequency stability over temperature(Ref.to 25°C)		±30ppm		±30ppm		±30ppm	
Storage temperature range		-55°C~125°C		-55°C~125°C		-55°C~125°C	
High-level output voltage		-	1.6V	VDD-1.025	VDD-0.88	0.50V	1.00V
Low-level output voltage		0.9V	-	VDD-1.810	VDD-1.62	-0.15V	0.15V
Supply current		-	40mA	-	60mA	-	40mA
Rise time		-	0.4ns	-	0.4ns	-	0.8ns
Fall time		-	0.4ns	-	0.4ns	-	0.8ns
Duty cycle		40%	60%	40%	60%	40%	60%
Start-up time		-	10ms	-	10ms	-	10ms
Output load		99Ω	101Ω	49.5Ω	50.5Ω	49.5Ω	50.5Ω
Tri-State	Output enable	70%VDD	-	70%VDD	-	70%VDD	-
	Output disable	-	30%VDD	-	30%VDD	-	30%VDD
Oscillation enable time		-	10ms	-	10ms	-	10ms
Oscillation disable time		-	0.2us	-	0.2us	-	0.2us
RMS Phase Jitter (12KHz ~ 20MHz)		-	0.5ps	-	0.5ps	-	0.5ps
Phase noise@156.25MHz	100Hz	-	-90dBc/Hz	-	-90dBc/Hz	-	-90dBc/Hz
	1KHz	-	-120dBc/Hz	-	-120dBc/Hz	-	-120dBc/Hz
	10KHz	-	-140dBc/Hz	-	-140dBc/Hz	-	-140dBc/Hz
Aging at first year		±3.0ppm		±3.0ppm		±3.0ppm	

Notes: The above parameters are for normal demands, If you have any different demands, Please contact us.

Dimensions (Unit: mm)



Pin	Function
#1	CE Or NC
#2	NC
#3	GND
#4	OUT
#5	OUTN
#6	VDD