

Oscillator SMD, spread spectrum, programmable



Features:
 Supply voltage 2,5V + 3,3V
 Different spread widths available
 Short delivery time



APSSO 7050
APSSO 5032

Specifications		
	APSSO 7050 / APSSO 5032	Remarks
Frequency range	1.5MHz ~ 200MHz	Please specify
Frequency stability	±25ppm ~ ±100ppm	Please specify
Operating temperature	-40°C ~ +85°C	Please specify
Storage temperature	-55°C ~ +125°C	
Programmable voltage 1 ~ 166 MHz	2.5V ±10%	
Programmable voltage 1 ~ 200 MHz	3.3V ±10%	
Aging (ppm / Year), Ta = 25C, Vdd = 5 / 3.3 V	±5ppm	
Programmable output level	HCMOS	

Drawing																					
<p>APSSO 5032</p> <p>RECOMMENDED SOLDERING PATTERN</p> <p>PIN CONNECTION</p> <table border="1"> <tr><th>P/N</th><th></th></tr> <tr><td>1</td><td>Control</td></tr> <tr><td>2</td><td>GND</td></tr> <tr><td>3</td><td>Output</td></tr> <tr><td>4</td><td>VDD</td></tr> </table>	P/N		1	Control	2	GND	3	Output	4	VDD	<p>APSSO 7050</p> <p>RECOMMENDED SOLDERING PATTERN</p> <p>PIN CONNECTION</p> <table border="1"> <tr><th>P/N</th><th></th></tr> <tr><td>1</td><td>Control</td></tr> <tr><td>2</td><td>GND</td></tr> <tr><td>3</td><td>Output</td></tr> <tr><td>4</td><td>VDD</td></tr> </table> <p style="text-align: right;">Dimensions in mm</p>	P/N		1	Control	2	GND	3	Output	4	VDD
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Operating conditions			
Description	Min	Max	Unit
Vdd Supply voltage	2.25	3.6	V
Vdd Rise Time	100		µS
HCMOS max capacitive load on outputs for CMOS levels			
Frequency: <40MHz		30	pF
Frequency: <40-200MHz		15	pF

Order key								
Part	Frequency	Type/Package	Tolerance	Voltage	Temperature	Option	Spread	Packaging
O	- 10.000000M	- APSSO 7050	- 50	- 2.5	- A	/ T	/ C	/
O=Oscillator	M=MHz	APQO= programmable QO 7050=SMD 7x5	±ppm	2.5=2.5Volt 3.3=3.3Volt	A= 0°C ~ +70°C B= -10°C ~ +60°C C= -10°C ~ +70°C D= -20°C ~ +70°C E= -40°C ~ +85°C	T= Tristate P= Power down	please see table 1	blank = tube

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Output clock switching characteristics					
Description	Test conditions	Min	Typ	Max	Unit
Duty cycle HCMOS @ Vdd/2	2.25V~3.6V Vdd	45		55	%
Output clock rise / fall	0.2-0.8Vdd, 2.25-3.6 Vdd, Cl=30			4.0	ns
	0.2-0.8Vdd, 2.25-3.6Vdd, Cl=15			2.4	ns
Start up time	From power on		3	10	ms

Electrical characteristics					
Discription	Test conditions	Min	Typ	Max	Unit
Input characteristics (Pin 1) VIL, Low-level input voltage TO Tri-state or power-down	3.0 ~ 3.6 V Vdd			0.2 Vdd	V
VIH, High-level input voltage TO Enable output or no connect	3.0 ~ 3.6 V Vdd	0.7 Vdd			V
IIL, Input low current	VIN = 0V			80	μA
IiH, Input high current	VIN = Vdd			10	μA
Output characteristics VOL, Low-level output voltage	3.0 V ~ 3.6 V Vdd, 8 mA IoL			0.4	V
VOHCMOS, High-level CMOS voltage	2.25 V ~ 3.6 V Vdd, -8 mA IoL	Vdd - 0.4			V
Power supply current (unloaded)	2.25 ~ 3.6 Vdd, OUTPUT FREQ 200 MHz			35	mA
Input pull-up resistor	2.25 ~ 3.6V Vdd, VIN = 0.7V	50	70	90	Ω
Tri-state leakage current	3.6V Vdd		20		μA
Output enable mode	Output is tri-stated Output is power down				

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spread		spread	
A	± 0.125%	I	± 1.125%
B	± 0.250%	K	± 1.250%
C	± 0.375%	M	± 1.375%
D	± 0.500%	O	± 1.500%
E	± 0.625%	P	± 1.625%
F	± 0.750%	R	± 1.750%
G	± 0.875%	S	± 1.875%
H	± 1.000%	T	± 2.000%

Table 1