



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



**APSSO 7050**  
**APSSO 5032**

Specifications		
	APSO 7050 / APSO 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	

### APSO 5032

RECOMMENDED SOLDERING PATTERN

P/N	
1	Control
2	GND
3	Output
4	VDD

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Dimensions in mm

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	- APSO 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

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					
Description	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				

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