

Engineering/Process Change Notice

ECN/PCN No.: 3973

					For Manufacturer		
Product Des	cription:			Abra	con Part Number / Part Series:	Documentation only	⊠ Series
CMOS Output Programmable SMD					AP3S	-	□ Part Numbe
		-			Aroo	⊠ ECN	
Cry	stal Cloci	k Oscillator	ſ			🗆 EOL	
Affected Revision: O				New	Revision:	Application:	□ Safety
					Р		
					I		⊠ Non-Safety
Prior to Cha	nge: Opti	on OE is a	vailable.				
Section 1 Ele	ectrical Sc	ecs					
Frequency R	-						
			-				
$V_{dd} = 3.3V$	1		200				
$V_{dd} = 2.5 V$	1		166	MH-			
$V_{dd} = 1.8V$	11	 	110		Please contact Abracon for		
$V_{dd} = 1.8V$	1		10.99	9	availability		
Storage Terr	perature	•					
-55		+150	°C				
		+150					
Supply Volta	age				-		
V _{dd} = 3.3V	2.97	3.30	3.63		Standard		
$V_{dd} = 2.5 V$	2.25	2.50	2.75	v	Vdd option 1		
$V_{dd} = 1.8V$	1.62	1.80	1.98		Vdd option 2		
Input Currer	nt	•	-		· · · · · ·		
	11	1			t		
			10	_	1MHz ≤ F< 30MHz		
			15	_	30MHz ≤ F< 75MHz		
V _{dd} = 3.3V			20	_	75MHz ≤ F< 133MHz		
			22	_	133MHz ≤ F < 166MHz		
			25	_	$166MHz \le F \le 200MHz$ $1MHz \le F \le 30MHz$		
			8	mA	$1 \text{MHz} \leq F < 30 \text{MHz}$ $30 \text{MHz} \leq F < 75 \text{MHz}$		
V _{dd} = 2.5V		+	10	_	75MHz ≤ F< 133MHz		
			15	_	$133MHz \le F < 166MHz$		
			6	_	11MHz ≤ F< 30MHz		
V _{dd} = 1.8V			8	_	30MHz ≤ F< 75MHz		
vas = 1.0 v			12	_	75MHz ≤ F< 110MHz		
Rise/Fall Tim	ne				+		
V _{dd} = 3.3V			3		$1MHz \le F \le 10MHz$		
			2		$10MHz \le F 200MHz$		
V _{dd} = 2.5V			4	ns	$1MHz \le F < 10MHz$		
			3		10MHz ≤ F 166MHz		
$V_{dd} = 1.8V$			5		$1 MHz \le F < 10 MHz$		
			4		10MHz ≤ F 110MHz		
Start-up Tim	ie						
		2.0	ms				
f Standby cur	ront		++				
			+ . +				
		15	uA	V _{dd} = 1.8, 2.5	, 3.3∨		
Period jitter	peak to p	beak					
		-	1 1	Page dawn d. C.			
		40		Standard frequ			
		200		Other frequence Reference only			
		200		Please contact			
Aftor Charge	o: Pome:	al of OF a	ntion				
After Chang			puon.				
Section 1 Ele	-	ecs					
Frequency R	lange:						
$V_{dd} = 3.3V$	1			200			
	1				MHz		
$V_{dd} = 2.5V$	1			200			
$V_{dd} = 1.8V$				125			

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Storage Temp	erature			+							
-55		+125	°C	1							
Supply Voltage											
$V_{dd} = 3.3V$	3.135	3.30	3.465	_	Standa						
$V_{dd} = 2.5V$ $V_{dd} = 1.8V$	2.375 1.71	2.50 1.80	2.625 1.89	V	V Vdd op Vdd op						
Input Current	1.71	1.00	1.07		vuu oj	511011 2		I			
$V_{dd} = 3.3V$	1			35							
$V_{dd} = 2.5V$				30		mА					
$V_{dd} = 1.8V$				20							
Rise/Fall Time											
$V_{dd} = 3.3V$				2							
$V_{dd} = 2.5V$				3	1	ns					
$V_{dd} = 1.8V$				4							
Start-up Time					-	-					
			8	ms	-						
	nt		-		-						
	,	4	00	uA	$V_{dd} = 1.8$, 2.5, 3.	3V				
+ Period jitter p	eak to pea	ik i									
1	1		2		V44 -2 23	7					
	1.1			ps Vdd =3.3V							
1.5 2				ps Vdd =2.5V ps Vdd = 1.8V							
	1.5		2	ps	vuu 1.0	•					
Update Reflov	v Profile										
Cause/Reasor		-									
			-					-	eries. IC replaced w	ith a new seco	ond generation
device with im	nproved pe	erformance	e (extende	ed freq	•	-	-				
						Chang	e Plai	n			
Effective Date				Additi	onal Rem	narks:					
	9/04/202	21									
Change Decla	ration:										
					_						
Issued Date:				Issued	Ву:				Issued Departr	nent:	
9/04/2021											
Approval:			1	Approval:					Approval:		
					Een A	buo oo		onlu			
	(16 11				For A			Lonly			
Last Time Buy	(if applica	-				4	Altern	ate Part Nui	nber / Part Series: None		
		None									
Additional Ap	proval:			Additic	onal Appi	roval:			Additional App	roval:	
				_							
				Cus	tomer A	pprov	val (It	Applicable			
Qualification S	Status:				_		_				
				,				accepted		,	
			nere is no	feedbo	ack from	the cu			ter ECN/PCN is rele	ased.	
Customer Part Number:							Customer Project:				

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Company Name:	Company Representative:	Representative Signature:
Customer Remarks:		

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