

DA PRODUCT FAMILY

Miniature AT Strip Crystals

Features

- High Frequency AT Cut Crystal Performance
- Small Compact Size
- Excellent Shock and Vibration Characteristics



Specifications

Param	eter	Value		
Frequency Range		3.579545 to 70.000 MHz		
Made of Oscillation	Fundamental	3.579545 to 30.000 MHz		
Mode of Oscillation	Third Overtone	30.01 to 70.000 MHz		
Eroguaney Talaranca a	+ 25°C	±50 ppm max		
Frequency Tolerance at 25°C		(±30 ppm available)		
Frequency Stability over	er Temperature	±50 ppm max		
		(±30 ppm available)		
Operating Temperatur	e Range	-10°C to +60°C		
		-40°C to +85°C		
Storage Temperature F	Range	-40°C to +85°C		
Aging		±5 ppm per year max		
Load Capacitance		10 pF to 32 pF or Series		
Equivalent Series Resis	tance	See Table 1		
Shunt Capacitance		5 pF ma		
Drive Level		100 μW max		
Shock Resistance		±5 ppm max75 cm drop test		
		onto a hardwood surface		

Table 1

Frequency (MHz)	Mode	MAX ESR (Ω)
3.579545 to 4.000	FUND	200
4.000 to 5.999	FUND	150
6.000 to 9.999	FUND	100
10.000 to 30.000	FUND	50
30.010 to 35.990	30T	100
36.000 to 70.000	30T	80

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.

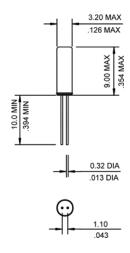


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Environmental

Parameter	Value		
Moisture Sensitivity Level	1		
RoHS	Compliant – Exemption 7a		
REACH SVHC	Compliant		
Halogen Free	Compliant		
ESD Classification Level	N/A		
Termination Finish	Sn		
Unit Weight (grams)	0.55		

Mechanical Specification



Part Numbering

DA	-	Frequency	-	Load	-	Tolerance/Stability
Produc Famil		Frequency (MHz)		Capacitance Load Capacitance (pF) 10 to 32 pF or S for Series		Blank: ±50 ppm F: ±30 ppm

EXAMPLE: DA-4.000-18

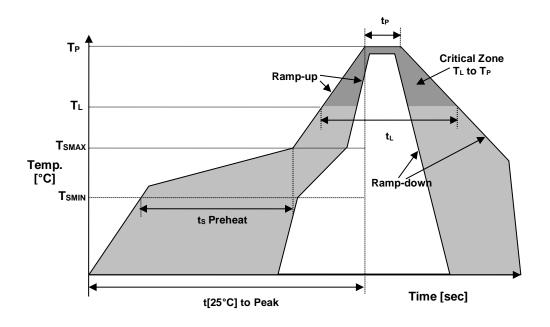
Microprocessor Crystal, 10.50×3.2 , 4.000 MHz, 18 pF load Capacitance, tolerance $\pm 30 \text{ ppm}$ and stability $\pm 50 \text{ ppm}$, Fundamental mode, standard temperature range -10°C to $+60^{\circ}\text{C}$

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Reflow Profile



Reflow Profile (Reference IPC/JEDEC J-STD-020)						
Temperature Min Preheat	T _{SMIN}	150°C				
Temperature Max Preheat	T _{SMAX}	200°C				
Time (T _{SMIN} to T _{SMAX})	ts	60 – 180 sec.				
Temperature	TL	217°C				
Peak Temperature	T _P	260°C				
Ramp-Up Rate	R_{UP}	3°C / sec. max				
Ramp-Down Rate	R _{DOWN}	6°C / sec. max				
Time within 5°C of Peak Temperature	T_P	10 sec.				
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.				
Time	TL	60 – 150 sec.				

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