Microprocessor Crystals

Cardinal provides the most comprehensive range of crystal components available. From standard microprocessors to custom-made crystals, Cardinal engineers and salespeople are dedicated to providing the best technical support and services possible.

Series C49

Pb RoHS OMPLIANT

Part Numbering Example: C49 X - A1 B2 C2 180 - 3.579545 D18 - 3

C49	X	A1*	B2	C2	180	3.579545	D18	- 3
SERIES	ADDED FEATURES	OPERATING TEMP	STABILITY	TOLERANCE	RESISTANCE	FREQUENCY	LOAD CAP.	OVERTONE
C49	F = FORMED LEADS						D16,18,20,ETC.	BLANK: FUND.
	W = VINYL SLEEVING	A1 = -10°C ~ +70°C	$B2 = \pm 50$	$C2 = \pm 50$	BELOW		DS = SERIES	-3: 3rd OT
	X = INSULATOR PAD	$A2 = -40^{\circ}C \sim +85^{\circ}C$	$B3 = \pm 30$	$C3 = \pm 30$				-5: 5th OT
	Y = THIRD LEAD	$A3 = -55^{\circ}C \sim +125^{\circ}C$	$B4 = \pm 10$	$C4 = \pm 10$				-7: 7th OT
	Z = TAPE AND REEL							-BT: BT Cut
	BLANK=BULK PACK							

CARDINAL COMPONENTS

*NOTE: The above ABC combinations cover basic specification options. We tailor our crystal specifications to meet customer requirements. Please contact our sales department if you don't see exactly what you need.

Specifications:

Frequency Range:	1.8432 ~ 150.000 MHz						
	Custom crystal	s available.					
Operating Temperatur	e: -10°C ~	+ 70°C Standard					
	-40°C ~	+ 85°C					
	-55°C ~	+125°C					
Frequency Stability:	±100 pp	m					
	± 50 pp	m Standard					
	± 30 pp	m					
	± 10 pp	m					
Frequency Tolerance:	±100 pp	m					
(at 25°C)	± 50 pp	m Standard					
	± 30 pp	m					
	± 10 pp	m					
Load Capacitance:	Standard	Standard 18 pF or series.					
	Please sp	pecify your required load.					
Resistance: Maxim	e: Maximum resistance corresponds to frequency.						
See chart below.							
Standard: Mode:	Mode: Fundamental, 3rd, 5th, or 7th Overtone						
Shunt Capacitance: 7 pF Max							
Aging: ± 5 ppm/year							
Drive	evel: 1.0 mW M	ax					
Optional Features:	ormed Leads						
١	inyl Sleeves						
Insulator Pads							
Third Lead							
Radial Tape and Reel (1K per Reel)							

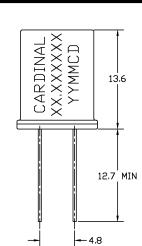
Resistance Chart: All resistances are maximum values.

EQUIVALENT SERIES RESISTANCE (ESR), MODE OF OPERATION (MODE), AND CUT **Frequency MHz ESR(**Ω) Mode/cut | Frequency MHz **ESR (**Ω) Mode/cut 1.8432~1.999 650 Max Fund./AT 5.000~5.999 75 Max Fund./AT 2.000~2.399 550 Max Fund./AT 6.000~6.999 50 Max Fund./AT 7.000~7.999 2.400~2.999 350 Max Fund./AT 40 Max Fund./AT 8.000~9.999 3.000~3.199 250 Max Fund./AT 35 Max Fund./AT 3.200~3.499 200 Max Fund./AT 10.000~12.999 Fund./AT 30 Max Fund./AT Fund./AT 3.500~3.599 180 Max 13.000~32.768 25 Max Fund./AT 3.600~3.899 150 Max 24.000~29.999 60 Max 3rd Overtone/AT 3.900~3.999 120 Max Fund./AT 30.000~74.999 40 Max 3rd Overtone/AT 4.000~4.099 100 Max Fund./AT 75.000~119.999 80 Max 5th Overtone/AT 4.100~4.999 80 Max Fund/AT 120.000~150.000 100 Max 5th Overtone/AT

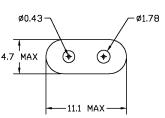
Cardinal Components, Inc. 155 Route 46 West Wayne, NJ 07470 Rev: C-090909-12



TEL: (973)785-1333 E-MAIL: sales@cardinalxtal.com WEB: http://www.cardinalxtal.com



C49



Note 1: Not all combinations of the above tolerances, stabilities, and temperature ranges are available. Consult the factory if your requirement is not standard.