

## SPECIFICATION OF MONOLITHIC FILTER

1	Nominal Frequency	21.400MHz
2	Case type	UM-1
3	Mode of oscillation	Fundamental frequency
4	Number of poles	2poles
5	Passband width	$\geq \pm 3.75\text{KHz}(\text{at } 3\text{db})$
6	Stopband width	$\leq \pm 12.5\text{KHz} (\text{at } 18\text{dB})$
7	Attenuation guaranteed	
8	Ripple	0.5dB max
9	Insertion loss	1.5dB max
10	Terminating Impedance	$900 \Omega // 2\text{pt} \pm 0.5\text{pt}$
11	Operating temperature range	$-30^\circ\text{C} \sim + 70^\circ\text{C}$
Remarks:		

## Specification of Quartz Crystal

PARAMETER	SPECIFICATION
Nominal Freq.	20.9500MHz
Holder	UM-1
Freq. Tolerance	+/- 5ppm at 25+/- 2 degree °C
Temperature Stability	Fs +/- 2.5ppm, referenced to 25°C
Operating Range	-30°C to +60°C
Equivalent Res.Rs	25 ohms MAX
Mode of Oscillation	fund
Shunt Capacitance Co	7 PF MAX
Load Capacitance CL	15 PF
Storage Range	-40°C to +85°C
Drive Level DL	100 uW
Aging	+/- 3ppm per year
Motional Capacitance	⟨1.5nF



## QUARTZ CRYSTAL UNITS

### SPECIFICATIONS

RALTRO N PART NUMBER:	CSA -309-4.194304-16
HOLDER TYPE / ITEM:	CYLINDRICAL PACKAGE
NOMINAL FREQUENCY:	4.194304MHz
FREQUENCY TOLERANCE:	+/-30PPM
TEMPERATURE CHARACTERISTICS:	+/-50PPM
OSCILLATION MODE:	FUNDAMENTAL
LOAD CAPACITANCE:	16PF
EQUIVALENT SERIES RESISTANCE:	150ohm MAX.
SHUNT CAPACITANCE:	5PF MAX
OPERATION TEMP RANGE:	-20°C ~ + 60°C
DRIVE LEVEL:	50 +/-5uW
INSULATION RESISTANCE:	500M OHM/DC100V

### DIMENSIONS

