

CRYSTAL OSCILLATORS

OVEN CONTROLLED CRYSTAL OSCILLATORS 9100 SERIES

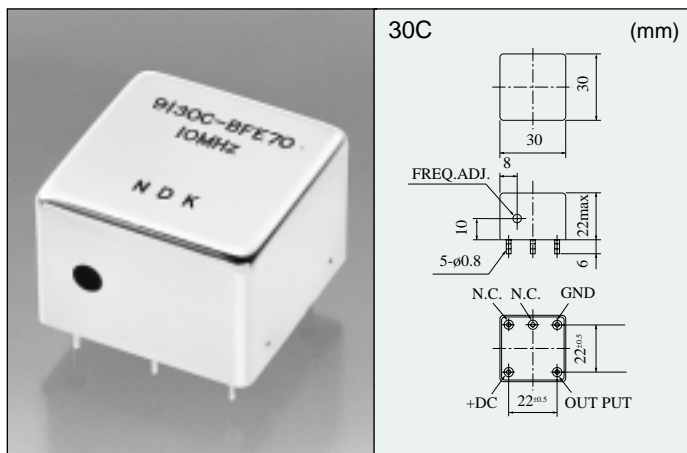
Model 9130C

- Main applications : Base station for mobile communication VSAT
- Features
 - Excellent phase noise characteristics
 - Excellent aging characteristics
 - Excellent stabilization time ($\pm 5 \times 10^{-8}$ /5minutes max. at +25°C)
 - Compactness and low power consumption (1/3 of our conventional type)

Specification

Item	Measuring Condition	Spec. Code	Model	
			HFE70	BFE70
Standard Nominal Frequency (MHz)			6.4	10 12.5 12.8 13
Supply Voltage			+12VDC	
Power Consumption			1.6W	
Output Level			$V_{OL} : 0.4V \text{ max, } V_{OH} : 2.4V \text{ min}$	
Fanout (gate)			N-TTL2	
Duty Cycle (+1.4V)			40~60%	
Operating Temp. Range			-10~+60°C	
Operable Temp. Range			-20~+70°C	
Frequency Stability	Short-term Stability	$\Delta f/f (2, \tau) 1s$	$+1 \times 10^{-9}$	
	Aging	After 24H operation	$\pm 2 \times 10^{-8}/\text{day}$	
			$\pm 2 \times 10^{-7}/\text{year}$	
	Temp. Charact.	-10~+60°C	$\pm 5 \times 10^{-8}$	
	Supply Volt Change	+12V \pm 10%	$\pm 3 \times 10^{-8}$	
	Vibration	Tot amp. 1.5mm Freq. 10~55Hz 3planes/30minutes each	$\pm 5 \times 10^{-8}$	
Shock	Natural Drop from 5cm height, 3planes/3times each	$\pm 5 \times 10^{-8}$		
Frequency Trim Range	By Internal trimmer		$\pm 1 \times 10^{-6} \text{ min}$	
Case Code			30C	

Dimensions



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■ Phase Noise Characteristics (example)

