OVEN CONTROLLED CRYSTAL OSCILLATORS 9100 SERIES

■ Model 9130D

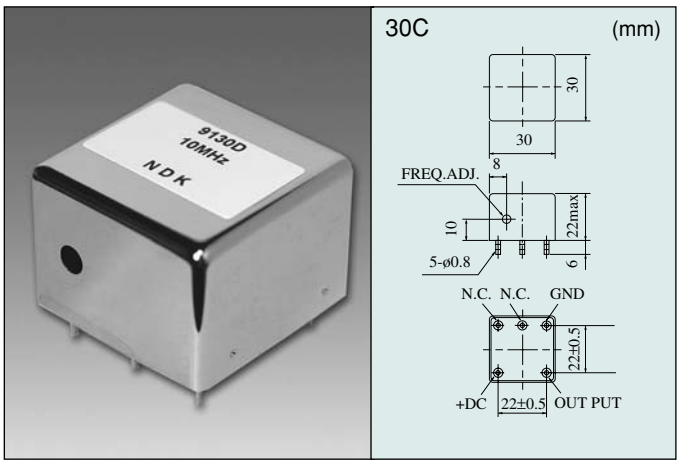
■ Main applications : Base station for mobile communication VSAT

■ Features
- Excellent phase noise characteristics
- Excellent aging characteristics
- Excellent stabilization time (±0.05×10^{-6}/5minutes max. at +25°C)
- Compactness and low power consumption (1/3 of our conventional type)

■ Specification

Item / Measuring Condition			Model: 9130D Spec. Code: BFE70
Standard Nominal Frequency (MHz)			10, 12.8, 13
Supply Voltage			+12V DC
Power Consumption			1.6W max
Output Level			V_{OL} : 0.4V max, V_{OH} : 2.4V 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	Δ f/f (2, τ) 1s	+1×10^{-9} max
	Aging	After 24H operation	±2×10^{-8} max/day
			±2×10^{-7} max/year
	Temp. Charact.	–10~+60°C	±5×10^{-8} max
	Supply Volt Change	+12V±10%	±3×10^{-8} max
	Vibration	Tot amp. 1.5mm Freq. 10~55Hz 3planes/30minutes each	±5×10^{-8} max
	Shock	Natural Drop from 5cm height, 3planes/3times each	±5×10^{-8} max
Frequency Trim Range		By Internal trimmer	±1×10^{-6} min
Case Code			30C

■ Dimensions



■ Phase Noise Characteristics (example)