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Standard Packages AT CUT Crystals

MODEL	OV42	OV52	OV102
FREQ' RANGE	2.00 to 100.00 MHz		
CRYSTAL CUT	AT		
FREQ' STABILITY VS. TEMPERATURE	See "How - To - Order" instructions Typical: ± 0.5 PPM , Best : ± 0.1 PPM		
LONG TERM STABILITY (AGING)	Typical: ± 0.5 to ± 1 PPM Max. per year		
OUTPUT WAVEFORM	See "How - To - Order" instructions		
LOAD	3 Gates for logic output 50 Ω for Sine Wave output		
FREQ' STABILITY VS. LOAD VARIATION	± 0.02 to 1.0 PPM Max. for $\pm 5\%$ variation		
SUPPLY VOLTAGE	See "How - To - Order" instructions		
FREQ' STABILITY VS. SUPPLY VARIATION	± 0.02 to 1.0 PPM Max. for $\pm 5\%$ variation		
SUPPLY POWER (AT 25° C)	Typical: 6.0W for warm-up 2.0W Max. at Steady State		
WARM UP TIME	Typical: To within ± 0.15 PPM from final frequency in 4 min @ 25°c		
FREQ' ADJUSTMENT RANGE	± 2.0 PPM to ± 4.0 PPM by external voltage		
SLOPE	Positive		
LINEARITY	$\pm 10\%$ Max.		
REFERENCE VOLTAGE	Per customer requirement		
PHASE NOISE	Typical Offset: -100 dBc at 10 Hz -120 dBc at 100 Hz -140 dBc at 1 KHz -150 dBc at 10 KHz Available in different performance per frequency		
SHORT TERM STABILITY	5×10^{-10} (Allan variance at 1 sec.)		

Environmental Conditions

SHOCK

IEC 68-2-27 (Test Ea), 30G, 18 mSec, Half Sine

VIBRATION

IEC 68-2-6 (Test Fc), 0.35mm, 5G, 10-2000Hz, 6 cycles/ axis

THERMAL SHOCK

IEC 68-2-14 (Test Na), 30 min. in each extreme temperature

OV42, OV52, OV102

Package	H{ mm}
OV42	12
OV52	20
OV102	16

Pin	Function
1	V Control
2	Ref' Voltage
3	Sup' Voltage
4	RF Output
5	N.C
6	GND/CASE

Dimensions in mm.

