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RUBIDIUM Clock

Features

- Operating Temperature: -40℃~+80℃
- Temperature Stability available to 0.05ppb
- Rapid, reliable warm-up time ≤ 4 minutes
- Power consumption ≤130mW
- Short-term stability (Allan Deviation) of 1E-10 at TAU=1 sec Ultra-tight frequency tolerance ±0.05ppb

Specifications general

Model	Operating temp. (℃)	Frequency Accuracy (at shipment)	Short-term Stability	Phase Noise	Aging	Steady @25℃	Holdover (μs@24h)	Warm up time @25℃	Dimension (mm)	Cross information
R55	-40℃~+80℃	±5E-11	≤5E-11/1s ≤3E-11/10S ≤1E-11/100S	≤-90dBc/Hz @10Hz ≤-120dBc/Hz @100Hz ≤-140dBc/Hz @1kHz ≤-145dBc/Hz @10kHz	≤5E-12/day	≤3W@12V	≤1us	≤ 10 minutes	50.8*50.8*17.8	MAC-SA55 (Microchip)
R55	-20℃~+70℃	±2E-10	≤1E-10/1~100s	≤-137dBc/Hz @1kHz	≤4E-11/day	≤8W	≤3us	≤ 10 minutes		N/A
R32	-20℃~+60℃	±1E-10	≤5E-11/1s ≤2E-11/10S ≤5E-12/100S	≤-85dBc/Hz @10Hz ≤-115dBc/Hz @100Hz ≤-135dBc/Hz @1kHz ≤-140dBc/Hz @10kHz	≤5E-12/day	≤6W	N/A	≤ 8 minutes		N/A

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Model	Operating temp. (℃)	Frequency Accuracy (at shipment)	Short-term Stability	Phase Noise	Aging	Steady @25℃	Holdover (μs@24h)	Warm up time @25℃	Dimension (mm)	Cross information
R45	-10℃~+70℃	±5E-11	≤3E-10/1s ≤1E-10/10S ≤3E-11/100S	≤-80dBc/Hz @10Hz ≤-113dBc/Hz @100Hz ≤-125dBc/Hz @1kHz ≤-135dBc/Hz @10kHz	≤3E-11/day	≤130mW	≤5us	≤ 4 minutes	41*35*12	SA.45S (Microchip)
	-40℃~+70℃		≤1E-10/1s ≤3E-11/10S ≤1E-11/100S	≤-90dBc/Hz @10Hz ≤-120dBc/Hz @100Hz ≤-140dBc/Hz @1kHz ≤-145dBc/Hz @10kHz	≤1E-11/day	≤1.8W	≤3us	≤ 5 minutes		

Applications

- Satellite timing and frequency control Satellite clock reference
- LTE base stations
- Smart grid
- Assured position, navigation and timing(PNT)
- Underwater sensor systems Test and measurement
- Data center timing card