

Mutec REF10 SE120 Ultimate Audiophile 10 MHz Reference Master Clock

Interfaces

- 2 x 10 MHz reference clock BNC output, 50 Ω terminated, unbalanced
- 6 x 10 MHz reference clock BNC output, 75 Ω terminated, unbalanced

Signal Format of all Clock Outputs

- Square wave, 10.000 MHz, 2 Vpp, 50:50 duty cycle

Clock Generation

- Type: 10.000 MHz ultra-low noise oven-controlled crystal oscillator
- FQ stability when shipped: < +/-0.01 ppm
- FQ stability vs. temperature range: < +/-0.01 ppm within -20 °C to +70 °C (-4 °F to +158 °F)
- Short term stability (Allan deviation) at Tau = 1 s: 2.5 x 10-13 (typically)
- Aging after 30 days operation:
 - < +/-0.0002 ppm (per day),
 - < +/-0.03 ppm (1st year),
 - < +/-0.2 ppm (10 years)
- Warm-up time at +25 °C (+77 °F) : <5 min

Phase noise	dBc/Hz
1 Hz:	≤ -120
10 Hz:	≤ -148
100 Hz:	≤ -162
1000 Hz:	≤ -167
Noise floor:	≤ -170

Power Supply

- Type: internal dual linear power supply
- Input Voltage: 90-125 V / 200-240 V, 50-60 Hz
- Power consumption: 12 W during oscillator warm-up, 8 W nominal operation

Mechanical Details

- Cover size/material/color: 196 x 84 x 300 mm (W x H x D, without connectors and case feet), 1,5 mm steel, black powder-coated
- Front panel size/material/surface/color: 198 x 88 x 8 mm (W x H x D), aluminium, anodized incl. anodic printing or silk screening, aluminium- or black-colored
- Weight: approx. 4350 g (9 lb, 9.5 oz)

REF10 SE120 Order Information

- Front aluminum-colored: Item No. 8015-107, EAN-Code: 4260342461075
- Front black-colored: Item No. 8015-108, EAN-Code: 4260342461082