

Direct Replacement Cesium Beam Tubes



10890A/10891A tube for 5071A only

KEY FEATURES

- Replacement for Symmetricom, Hewlett-Packard/Agilent
- Choice of cesium beam tube performance (standard or high-performance)
- Installations and service available

KEY BENEFITS

- Renews primary frequency standard system life span
- Restores primary frequency standard performance
- Replacement tube meets or exceeds original performance specifications

The Symmetricom® cesium beam tube replacement service offer you both time and cost savings. Installation of a replacement tube restores your cesium instrument's tube performance and can extend your cesium instrument's life span at a reduced cost compared with the purchase of a new instrument. Replacement cesium beams tube meet or exceed the original performance levels when all other components of the instrument perform to original specifications. Cesium beam tube replacement is offered for all Symmetricom cesium instruments and

other models of cesium instruments formerly manufactured by Hewlett-Packard®/Agilent®. The field kit comes with all necessary material and instructions to aid in an easy installation.

The installation can be performed at the customer site by a trained Symmetricom technician for an additional fee.

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Specifications

STANDARD PERFORMANCE CESIUM BEAM TUBES

- Replace for: Warranty
- Symmetricom: 5071A models
10890A - Standard Tube 10 Years
10891A - High Performance Tube 5 Years

5071A CESIUM BEAM TUBES

- | Part Number:** | 10890A | 10891A |
|--|----------------------|------------------|
| Description: | Standard performance | High performance |
| Warranty: | 10-Year | 5-Year |
| Accuracy to: ¹ | $\pm 1.0E-12$ | $\pm 5.0E-13$ |
| Stability (Allan Deviation) to: ² | | |
| 1 | $\leq 1.2E-11$ | $\leq 5.0E-12$ |
| 10 | $\leq 8.5E-12$ | $\leq 3.5E-12$ |
| 100 | $\leq 2.7E-12$ | $\leq 8.5E-13$ |
| 1,000 | $\leq 8.5E-13$ | $\leq 2.7E-13$ |
| 10,000 | $\leq 2.7E-13$ | $\leq 8.5E-14$ |
| 100,000 | $\leq 8.5E-14$ | $\leq 2.7E-14$ |
| 5 days | $\leq 5.0E-14$ | $\leq 1.0E-14$ |
| 30 days | $\leq 5.0E-14$ | $\leq 1.0E-14$ |
| Flicker floor (typical): | $\leq 1.5E-14$ | $\leq 5.0E-15$ |

** These can be purchased directly or installed by Symmetricom

¹ Accuracy will be restored to the same specifications that were in effect at time of instrument purchase.

² Indicates typical cesium beam tube stability when installed in a cesium frequency standard. Actual performance is dependent on the cesium frequency standard's oscillator and electronics.