

# 40X ZEISS EC Epiplan Objective

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ZEISS EC Epiplan Objectives



Stock **#13-825** 3 In Stock

-

1

+

€1.634<sup>00</sup>

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Product Downloads

| General                                                           |               |
|-------------------------------------------------------------------|---------------|
| 422060-9901-000                                                   | Model Number: |
| Compatible Tube Lens Focal Length (mm):<br>Focal Length: 164.50mm |               |

|                      |       |
|----------------------|-------|
| Microscope Objective | Type: |
|----------------------|-------|

|                                                                                                                                                                             |                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Typical Applications:<br>Fluorescence, BrightField, Differential Interference Contrast, Reflected Light DIC, DIC with circular polarized light, total interference contrast |                                        |
| Infinity Corrected                                                                                                                                                          | Style:                                 |
| Zeiss                                                                                                                                                                       | Manufacturer:                          |
| Physical & Mechanical Properties                                                                                                                                            |                                        |
| 0.575                                                                                                                                                                       | Field of View (mm):                    |
| 42.80                                                                                                                                                                       | Length excluding Threads (mm):         |
| 30                                                                                                                                                                          | Maximum Diameter (mm):                 |
| 180                                                                                                                                                                         | Weight (g):                            |
| Optical Properties                                                                                                                                                          |                                        |
| N/A                                                                                                                                                                         | Compatible Cover Glass Thickness (mm): |
| 4.10                                                                                                                                                                        | Focal Length FL (mm):                  |
| 40X                                                                                                                                                                         | Magnification:                         |
| 0.60                                                                                                                                                                        | Numerical Aperture NA:                 |
| 0.46                                                                                                                                                                        | Resolving Power (µm):                  |
| 0.76                                                                                                                                                                        | Depth of Field (µm):                   |
| 2.2                                                                                                                                                                         | Working Distance (mm):                 |
| 480 - 650                                                                                                                                                                   | Wavelength Range (nm):                 |
| 23                                                                                                                                                                          | Field Number (mm):                     |
| 45                                                                                                                                                                          | Parfocal Length (mm):                  |
| N/A                                                                                                                                                                         | Immersion Liquid:                      |
| Threading & Mounting                                                                                                                                                        |                                        |
| M27 x0.75                                                                                                                                                                   | Mounting Threads:                      |
| Environmental & Durability Factors                                                                                                                                          |                                        |
| +10 to +40                                                                                                                                                                  | Operating Temperature (°C):            |
| 75% at 35°C                                                                                                                                                                 | Operating Humidity:                    |
| Regulatory Compliance                                                                                                                                                       |                                        |
| <a href="#">View</a>                                                                                                                                                        | Certificate of Conformance:            |

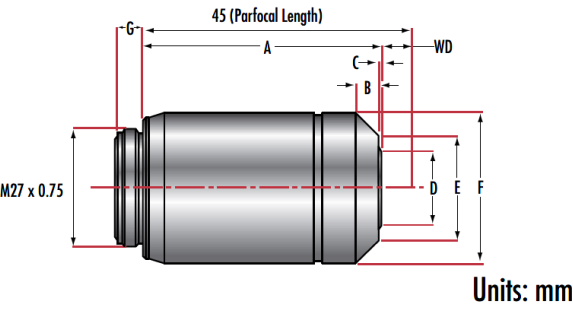
## Product Details

- Ideal for Brightfield, Fluorescence, and Differential Interference Contrast Applications
- Enhanced Contrast
- Excellent Color Correction and Flatness of Field

ZEISS EC Epiplan Plan Achromat Infinity Corrected Objectives are plan achromats and feature excellent color correction and flatness of field. Designed to meet the requirements of ISO 19012-1:2013, these objectives are ideal for material microscopy applications. By minimizing stray light, these objectives enhance system contrast making them ideal for reflected light brightfield applications. ZEISS EC Epiplan Plan Achromat Infinity Corrected Objectives have a 23mm field number enabling large areas of magnification.

**Note:** Tube Lens [#13-828](#) is required when using ZEISS EC Epiplan Plan Achromat Infinity Corrected Objectives with non-ZEISS Infinity Color Corrected (ICS) microscope systems.

## Technical Information



| Stock No. | EC Epiplan | A     | B    | C    | D    | E    | F    | G   | W.D.  | PFL   | Mounting Threads |
|-----------|------------|-------|------|------|------|------|------|-----|-------|-------|------------------|
| #13-822   | 5X         | 33.20 | 2.10 | 6.00 | 11.6 | 22.5 | 30.0 | 3.9 | 11.80 | 45.00 | M27x0.75         |
| #13-823   | 10X        | 34.00 | 2.10 | 6.80 | 11.6 | 22.5 | 30.0 | 3.9 | 11.00 | 45.00 | M27x0.75         |
| #13-824   | 20X        | 41.80 | 7.40 | 3.80 | 12.6 | 22.5 | 30.0 | 3.9 | 3.20  | 45.00 | M27x0.75         |
| #13-825   | 40X        | 42.80 | 9.40 | 2.80 | 9.1  | 14.5 | 30.0 | 3.9 | 2.20  | 45.00 | M27x0.75         |
| #13-826   | 50X        | 44.05 | 8.10 | 5.35 | 9.0  | 22.5 | 30.0 | 3.9 | 1.00  | 45.00 | M27x0.75         |
| #13-827   | 100X       | 44.15 | 8.10 | 5.45 | 9.0  | 22.5 | 30.0 | 3.9 | 0.87  | 45.00 | M27x0.75         |