

## 2" x 2", ITO Coated EMI Shielded Plastic Window



Stock #83-744 CLEARANCE **20+ In Stock**

₹3,476

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**General**

Protective Window Type:

**Physical & Mechanical Properties**

2.00 x 2.00 ± 0.010 Dimensions (inches):

50.80 x 50.80 Dimensions (mm):

0.05 ± 0.005 Thickness (inches):

Thickness (mm):

1.27

**Thickness Tolerance (inches):**  
±0.005

**Length (mm):**  
50.80

**Width (mm):**  
50.80

**Bevel:**  
Protective as needed

**Construction:**  
Silver Busbar Shielding Termination

**Edges:**  
Fine Ground

## Optical Properties

**Coating:**  
S1: BBAR (450-650nm)  
S2: ITO Coating

**Substrate:** □  
PET

**Visible Light Transmission VLT (%):**  
>84

**Coating Specification:**  
Surface 1:  $R_{avg} < 1\%$  @ 450 - 650nm  
Surface 2: Clear Hard Coated

**Wavelength Range (nm):**  
450 - 650

## Electrical

**Shielding Effectiveness @ 100MHz (dB):**  
49.00

## Material Properties

**Surface Resistivity ( $\Omega$ / Sq):**  
8.00

## Regulatory Compliance

**Certificate of Conformance:**  
[View](#)

**Country of Origin:**  
United States

**Imported By:**  
Edmund Optics India Private Limited

## Product Details

- >84% Visible Light Transmission
- Reflects Infrared While Transmitting Visible
- 49dB Shielding Effectiveness

ITO Coated EMI Shielded Plastic Windows offer the properties of a hot mirror transmitting >84% of visible light while reflecting 75% of wavelengths >1400nm. They provide excellent optical clarity and image reproduction. These EMI shielded windows are suitable for displays requiring 8 $\Omega$  EMI radiation shielding. A front anti-reflection (AR) coating decreases unnecessary glare and reflection while a rear clear, hard coating increases durability. ITO Coated EMI Shielded Plastic Windows are ideal for indoor and outdoor use including display protection and test instrumentation.

To prevent interference and image distortion, electromagnetic interference (EMI) shielded windows are used to decrease EM while maintaining a high level of optical clarity. Utilizing a coating of indium tin oxide (ITO), a conductive solid solution optically transparent to the visible spectrum but reflective of the infrared, ITO Coated EMI Shielded Plastic Windows guard against the image-degrading effects of EMI, thereby preserving optimum image reproduction.

The plastic substrate creates a durable window highly resistant to scratches, chemicals, and impact, yet lightweight and easily maintained. A silver busbar surrounding the circumference of the windows provide flexibility in window positioning and maximize electrical current while providing continuous protection from EMI. Combined with ITO's high heat resistance, ITO Coated EMI Shielded Plastic Windows are an excellent choice for harsh environments.

## Compatible Mounts