



Vikuiti™ Enhanced Specular Reflector (ESR)



A reflector for a brighter, more efficient display

Features: • 98% reflectance across the visible spectrum • Thin, non-metallic polymer film
Specifications: • Sheet Size: 11 in. x 11 in. • Thickness: 65µm (2.6 mils)

| Description | Digi-Key Part No. | Price Each | | 3M Part No. |
|--------------------------------|-------------------|------------|-------|-------------|
| | | 1 | 10 | |
| ESR film, 1 sheet | 3M5510-ND | 24.68 | 19.75 | — |
| ESR film, 30 sheet product kit | 3M5510-KIT-ND | 536.88 | — | 98044009557 |

Note: For detailed specifications, please see our website.

Vikuiti™ Brightness Enhancement Film (BEF) II and III



Vikuiti BEF II and III recycle diffused light into the backlight and direct the light through the LCD, thereby providing increased brightness toward the on-axis viewer.

The prism pitch refers to the distance between the peaks of adjacent prisms when the prism angle is fixed at 90°.

| Description | Prism Pitch (µm) | Digi-Key Part No. | Price Each | | 3M Part No. |
|---------------------------------|------------------|-------------------|------------|-------|-------------|
| | | | 1 | 10 | |
| BEF II, 1 sheet | 50 | 3M5511-ND | 21.29 | 17.04 | — |
| BEF II, 30 sheet product kit | 50 | 3M5511-KIT-ND | 479.16 | — | 98043985039 |
| BEF II, 1 sheet | 24 | 3M5512-ND | 21.29 | 17.04 | — |
| BEF II, 30 sheet product kit | 24 | 3M5512-KIT-ND | 479.16 | — | 98043985609 |
| BEF III-M, 1 sheet | 50 | 3M5513-ND† | 21.29 | 17.04 | — |
| BEF III-M, 30 sheet product kit | 50 | 3M5513-KIT-ND† | 479.16 | — | 98044003659 |

† Matte bottom surface finish

Note: For detailed specifications, please see our website.

Vikuiti™ Dual Brightness Enhancement Film (DBEF)



Vikuiti DBEF films work through polarization recycling. A typical polarizer absorbs light that is not polarized correctly. DBEF reflects this light into the backlight, where it can be recycled into the correct polarization.

| Description | Digi-Key Part No. | Price Each | | 3M Part No. |
|---|-------------------|------------|----|----------------|
| | | 1 | 10 | |
| DBEF-E Film, 0°, 17 in. x 17 in., 1 Sheet | 3M5670-ND | 81.46 | — | — |
| DBEF-E Film, 0°, 17 in. x 17 in., 10 Sheet Kit | 3M5670-KIT-ND | 694.78 | — | 98-0440-0359-2 |
| DBEF-E Film, 45°, 17 in. x 17 in., 1 Sheet | 3M5671-ND | 81.46 | — | — |
| DBEF-E Film, 45°, 17 in. x 17 in., 10 Sheet Kit | 3M5671-KIT-ND | 694.78 | — | 98-0440-0360-0 |
| DBEF-D400, 0°, 17 in. x 17 in., 1 Sheet | 3M5672-ND | 100.59 | — | — |
| DBEF-D400, 0°, 17 in. x 17 in., 10 Sheet Kit | 3M5672-KIT-ND | 857.95 | — | 98-0440-4277-2 |
| DBEF-D400, 45°, 17 in. x 17 in., 1 Sheet | 3M5673-ND | 100.59 | — | — |
| DBEF-D400, 45°, 17 in. x 17 in., 10 Sheet Kit | 3M5673-KIT-ND | 857.95 | — | 98-0440-4278-0 |

Note: For detailed specifications, please see our website.

Vikuiti™ Anti-Reflection Matte Removable Film (ARMR200)



Features:

• Durable - Protects display from scratches and scuffs • Anti-reflective coating helps improve clarity and readability • Easy to clean - markers and fingerprints wipe away easily • Non-tacky adhesive removes easily with no residue • Matte surface for less slippage when writing with a stylus

| Description | Digi-Key Part No. | Price Each | | 3M Part No. |
|--|-------------------|------------|----|-------------|
| | | 1 | 10 | |
| ARMR200, 2.84 in. x 2.13 in. 3 sheet kit | 3M5514-KIT-ND | 12.25 | — | 98044042731 |
| ARMR200, 9.74 in. x 7.32 in. 1 sheet | 3M5515-ND | 21.77 | — | — |
| ARMR200, 9.74 in. x 7.32 in. 5 sheet kit | 3M5515-KIT-ND | 98.92 | — | 98044042616 |

Note: For detailed specifications, please see our website.

Vikuiti™ Durable Quick Clean Matte Film (DQC-M)



Vikuiti Durable Quick Clean Matte Film is an easy, cost-saving way to repair many types of LCD damage. The specially designed adhesive on Vikuiti DQC-M Film fills in most screen surface irregularities so they are virtually undetectable. DQC-M is a quick fix that will save you time and money over replacing the polarizer and/or the entire LCD module.

| Description | Digi-Key Part No. | Price Each | | 3M Part No. |
|-------------------------------------|-------------------|------------|------|-------------|
| | | 1 | 10 | |
| DQC-M, 12 in. x 9 in., 1 sheet | 3M5516-ND | 11.99 | 9.60 | — |
| DQC-M, 12 in. x 9 in., 50 sheet kit | 3M5516-KIT-ND | 449.76 | — | 98044043721 |

Note: For detailed specifications, please see our website.

Vikuiti™ Advanced Light Control Film (ALCF-P)



Vikuiti Advanced Light Control Film blocks out display screen views from the side while allowing unrestricted viewing to users in front. Seen from the right or left, the screen appears dark; seen from the front, the screen is bright and clear.

Specifications: • Sheet size: 12 in. x 11.5 in. • Sheet Thickness: 0.21 in. ±0.003 in.

| Description | Digi-Key Part No. | Price Each | | 3M Part No. |
|------------------------------------|-------------------|------------|----|-------------|
| | | 1 | 10 | |
| ALCF-P, Gloss finish, 1 sheet | 3M5517-ND | 67.88 | — | — |
| ALCF-P, Gloss finish, 10 sheet kit | 3M5517-KIT-ND | 578.99 | — | 98044042640 |
| ALCF-P, Matte finish, 1 sheet | 3M5518-ND | 83.93 | — | — |
| ALCF-P, Matte finish, 10 sheet kit | 3M5518-KIT-ND | 715.84 | — | 98044042665 |

Note: For detailed specifications, please see our website.

Notebook Privacy Computer Filters



Notebook privacy computer filters keep on-screen information private. From the side, others see a darkened screen, providing worry-free privacy.

Features:

• No blurring or distorting screen images • Helps protect computer screen from scratches, fingerprints and damage • Improves contrast and reduces screen reflections • Easy on, easy off attachment method • Reversible – choose matte or gloss finish

Note: For proper fit, do not include the plastic monitor or laptop frame in your measurement.

Notebook / LCD Computer Filters

| Filter Viewing Area H x W (Inch) | Fits Monitor Size (Inch) | Digi-Key Part No. | Price Each | | 3M Part No. |
|----------------------------------|--------------------------|-------------------|------------|-------|-------------|
| | | | 1 | 10 | |
| 7.32 x 9.74 | 12.1 | 3M5588-ND | 44.76 | 37.30 | PF12.1 |
| 6.46 x 10.29 | 12.1 | 3M5589-ND‡ | 46.06 | 38.39 | PF12.1W |
| 7.99 x 10.63 | 13.3 | 3M5590-ND | 44.76 | 37.30 | PF13.3 |
| 8.44 x 11.25 | 14.1 | 3M5591-ND | 45.74 | 38.12 | PF14.1 |
| 7.50 x 11.99 | 14.1 | 3M5592-ND‡ | 47.04 | 39.21 | PF14.1W |
| 8.98 x 11.98 | 15.0 | 3M5593-ND | 49.66 | 41.39 | PF15.0 |
| 8.18 x 13.09 | 15.4 | 3M5594-ND‡ | 50.97 | 42.48 | PF15.4W |
| 10.64 x 13.3 | 17.0 | 3M5595-ND | 74.98 | 63.96 | PF17.0 |
| 9.06 x 14.47 | 17.0 | 3M5596-ND‡ | 77.45 | 66.06 | PF17.0W |
| 11.3 x 14.13 | 18.1 | 3M5597-ND | 80.54 | 68.69 | PF18.1 |
| 11.89 x 14.83 | 19.0 | 3M5598-ND | 89.92 | 76.70 | PF19.0 |

‡ Fits Widescreen Monitors

Desktop Monitor Filters — Gray Flat Frame

| Filter Viewing Area H x W (Inch) | CRT Monitor Size (Inch) | LCD Monitor Size (Inch) | Digi-Key Part No. | Price Each | | 3M Part No. |
|----------------------------------|-------------------------|-------------------------|-------------------|------------|--------|-------------|
| | | | | 1 | 10 | |
| 8.56 x 11.58 | 13 – 15 | — | 3M5605-ND | 86.32 | 73.63 | PF500L |
| 9.75 x 12.75 | 14 – 16 | 15 | 3M5599-ND | 104.61 | 89.23 | PF400L |
| 9.75 x 12.75 | 14 – 16 | 15 | 3M5602-ND◊ | 104.61 | 89.23 | PF400LB |
| 11.5 x 14.13 | 16 – 19 | 17 – 18 | 3M5600-ND | 173.85 | 152.12 | PF400XL |
| 11.5 x 14.13 | 16 – 19 | 17 – 18 | 3M5603-ND◊ | 173.85 | 152.12 | PF400XLB |
| 11.5 x 14.13 | 16 – 19 | 17 – 18 | 3M5606-ND | 125.01 | 109.39 | PF500XL |
| 13 x 16 | 19 – 21 | 19 – 20 | 3M5601-ND | 295.87 | 262.34 | PF400XXL |
| 13 x 16 | 19 – 21 | 19 – 20 | 3M5604-ND◊ | 295.87 | 262.34 | PF400XXLB |

◊ Black flat frame

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

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3M MicroTouch™ Capacitive Touch Screens and Accessories



ClearTek™ II Capacitive Touch Screens

Features:

- Excellent light transmission of 91.5% (±1.5%) provides vibrant optical characteristics with optimal anti-glare properties
- Resilient top coat provides smooth, easy glide surface while offering durable scratch resistance
- Performance unaffected by everyday contaminants in the environment

Note: For detailed specifications, please see our website.

| Size (Inch) | Flex Tail Length (Inch) | Digi-Key Part No. | Price Each | | | 3M Part No. |
|-------------|-------------------------|-------------------|------------|--------|--------|-------------|
| | | | 1 | 10 | 50 | |
| 6.71 | 4 | 3M5519-ND | 71.58 | 61.06 | 56.01 | 17-8091-203 |
| | 8 | 3M5747-ND | 71.58 | 61.06 | 56.01 | |
| 8.75 | 4 | 3M5520-ND | 74.05 | 63.17 | 57.94 | 17-8921-203 |
| | 8 | 3M5521-ND | 75.29 | 64.22 | 58.91 | |
| 10.83 | 4 | 3M5744-ND | 75.29 | 64.22 | 58.91 | 17-8021-205 |
| | 8 | 3M5522-ND | 91.33 | 77.90 | 71.46 | |
| 12.31 | 4 | 3M5522-ND | 91.33 | 77.90 | 71.46 | 17-8581-203 |
| | 8 | 3M5754-ND | 91.33 | 77.90 | 71.46 | |
| 15.68 | 4 | 3M5523-ND | 122.19 | 104.22 | 95.60 | 17-8031-203 |
| | 8 | 3M5745-ND | 122.19 | 104.22 | 95.60 | |
| 17.54 | 4 | 3M5524-ND | 126.61 | 110.79 | 102.88 | 17-8421-203 |
| | 8 | 3M5748-ND | 134.53 | 114.75 | 105.25 | |
| 19.75 | 4 | 3M5525-ND | 133.58 | 116.89 | 108.54 | 17-8511-203 |
| | 8 | 3M5752-ND | 141.93 | 121.07 | 111.05 | |
| 20.65 | 4 | 3M5526-ND | 139.39 | 121.97 | 113.26 | 17-8441-203 |
| | 8 | 3M5750-ND | 148.10 | 126.33 | 115.87 | |
| 31.80 | 8 | 3M5527-ND | 630.75 | 551.91 | 512.49 | 17-8951-205 |

Controllers

| Interface | Sensor Support | Digi-Key Part No. | Price Each | | | 3M Part No. |
|--|----------------|-------------------|------------|-------|-------|-------------|
| | | | 1 | 10 | 50 | |
| EX II Capacitive Controllers | | | | | | |
| USB | ClearTek II | 3M5539-ND | 56.77 | 48.43 | 44.42 | EXII-7710UC |
| | | 3M9138-ND | 56.77 | 48.43 | 44.42 | EXII-7760UC |
| USB 1x2 | ClearTek II | 3M9137-ND | 56.77 | 48.43 | 44.42 | EXII-7769UC |
| Serial | ClearTek II | 3M5540-ND | 56.77 | 48.43 | 44.42 | EXII-7720SC |
| MicroTouch SC Resistive Controllers | | | | | | |
| USB Serial | 4-Wire | 3M5541-ND | 30.06 | 27.06 | 19.54 | SC401U |
| | | 3M5542-ND | 30.06 | 27.06 | 19.54 | SC402S |
| USB Serial | 5-Wire | 3M5543-ND | 30.06 | 27.06 | 19.54 | SC501U |
| | | 3M5544-ND | 30.06 | 27.06 | 19.54 | SC502S |
| USB Serial | 8-Wire | 3M5545-ND | 30.06 | 27.06 | 19.54 | SC801U |
| | | 3M5546-ND | 30.06 | 27.06 | 19.54 | SC802S |
| MicroTouch SC Series Resistive Chip Set | | | | | | |
| — | — | 3M5547-ND | 14.52 | 13.07 | 9.44 | SCX-ASIC |

USB and Serial Cables

| Description | Digi-Key Part No. | Price Each | | | 3M Part No. |
|----------------------------------|-------------------|------------|-------|-------|-------------|
| | | 1 | 10 | 50 | |
| SC Series Cables | | | | | |
| USB, 5 pin, 96" (Pearl) | 3M5548-ND | 10.16 | 9.15 | 6.61 | 7319420 |
| Serial, 8 pin, 96" (Teal) | 3M5549-ND | 10.16 | 9.15 | 6.61 | 7319630 |
| EX II Series Cables | | | | | |
| RS-232, 7 pin, 96" (Pearl) | 3M5551-ND | 10.16 | 9.15 | 6.61 | 7310101 |
| USB, 5 pin, 96" (Pearl) | 3M5552-ND | 10.16 | 9.15 | 6.61 | 7312256 |
| USB, 5 pin, 23" (Black) | 3M5554-ND | 10.16 | 9.15 | 6.61 | 7315050 |
| Mounting Tape | | | | | |
| VHB, 3/8 in. x 36 yards | 3M5550-ND | 44.43 | 37.90 | 34.77 | 24736 |

ToughTouch II Capacitive Touch Systems (with USB Controllers)

ToughTouch II capacitive touch screens are an ideal solution for ruggedized self-service kiosks and ATM applications – environments where impact strength, shatter resistance, brighter displays, superior surface wear and viewer privacy are a requirement.

| Size (Inch) | Flex Tail Length (Inch) | Digi-Key Part No. | Price Each | | | 3M Part No. |
|-------------|-------------------------|-------------------|------------|--------|--------|-------------|
| | | | 1 | 10 | 50 | |
| 15.90 | 8 | 3M5763-ND | 319.66 | 272.65 | 250.09 | 87-4061-211 |
| 17.78 | 8 | 3M5764-ND | 349.28 | 297.92 | 273.26 | 87-5961-211 |
| 19.83 | 8 | 3M5765-ND | 377.67 | 322.13 | 295.47 | 87-6001-211 |

ClearTek™ II Capacitive Touch Systems (with USB Controllers)

| Size (Inch) | Flex Tail Length (Inch) | Digi-Key Part No. | Price Each | | | 3M Part No. |
|-------------|-------------------------|-------------------|------------|--------|--------|-------------|
| | | | 1 | 10 | 50 | |
| 15.68 | 8 | 3M9127-ND | 178.96 | 152.65 | 140.01 | 17-8031-226 |
| 17.54 | 8 | 3M9128-ND | 191.30 | 163.17 | 149.67 | 17-8421-226 |
| 20.65 | 8 | 3M9129-ND | 204.88 | 174.75 | 160.29 | 17-8441-226 |
| 19.75 | 8 | 3M9130-ND | 198.71 | 169.49 | 155.46 | 17-8511-226 |
| 26.28 | 8 | 3M9131-ND | 378.90 | 323.18 | 296.44 | 17-8931-226 |

Wide Aspect Ratio ClearTek™ II Capacitive Touch Systems (with USB Controllers)

| Size (Inch) | Flex Tail Length (Inch) | Digi-Key Part No. | Price Each | | | 3M Part No. |
|-------------|-------------------------|-------------------|------------|--------|--------|-------------|
| | | | 1 | 10 | 50 | |
| 17.80 | 8 | 3M9133-ND | 191.30 | 163.17 | 149.67 | 17-9241-226 |
| 19.34 | 8 | 3M9134-ND | 198.71 | 169.49 | 155.46 | 17-9251-226 |
| 20.65 | 8 | 3M9135-ND | 204.88 | 174.75 | 160.29 | 17-9261-226 |
| 22.37 | 8 | 3M9136-ND | 204.88 | 174.75 | 160.29 | 17-9311-226 |
| 31.80 | 8 | 3M9132-ND | 726.94 | 620.04 | 568.73 | 17-8951-226 |



Infrared Touch Screens



E and K Series Infrared Touch Screens:

Infrared technology uses infrared emitter-collector pairs to project an invisible grid of light a small distance over the surface of the screen. When a beam is interrupted, the absence of the signal at the collector is detected and converted to an X/Y touch coordinate.

Features:

- Super Transparency • High Resolution (Interpolated 4096 x 4096) • Fast response time • Versatile Touch Object • No Drift • Scratch Resistant • Water/Dust Resistant (IP65) • Sunlight Operable • Integrated Controller • Wide Temperature Range (-40°C - 70°C) • Robust Design • Long Life Expectancy

| Size (Inch) | Outside Dimensions W x H x D (mm) | Port | Active Area W x H (mm) | Digi-Key Part No. | Price Each | | | | IRTOUCH Systems Part No. |
|------------------------------|-----------------------------------|------------|------------------------|-------------------|------------|--------|--------|--------|--------------------------|
| | | | | | 1 | 10 | 50 | 100 | |
| E Series | | | | | | | | | |
| 6.4 | 165.6 x 133 x 8.7 | RS-232 USB | 130.6 x 98 | 653-1008-ND | 78.41 | 68.61 | 58.81 | 49.01 | E-64-C |
| | | | | 653-1009-ND | 78.41 | 68.61 | 58.81 | 49.01 | E-64-U |
| 6.5 | 169 x 136 x 9.1 | RS-232 USB | 134 x 101 | 653-1010-ND | 78.41 | 68.61 | 58.81 | 49.01 | E-65-C |
| | | | | 653-1011-ND | 78.41 | 68.61 | 58.81 | 49.01 | E-65-U |
| 8.4 | 210.6 x 161.6 x 6.8 | RS-232 USB | 171.6 x 128.6 | 653-1012-ND | 100.36 | 87.82 | 75.28 | 62.73 | E-84-C |
| | | | | 653-1013-ND | 100.36 | 87.82 | 75.28 | 62.73 | E-84-U |
| 10.4 | 244.2 x 191.4 x 6.8 | RS-232 USB | 211.2 x 158.4 | 653-1014-ND | 123.88 | 108.40 | 92.92 | 77.43 | E-104-C |
| | | | | 653-1015-ND | 123.88 | 108.40 | 92.92 | 77.43 | E-104-U |
| 12.1 | 281.9 x 220.7 x 6.8 | RS-232 USB | 246.4 x 185.2 | 653-1000-ND | 139.57 | 122.12 | 104.68 | 87.23 | E-12-C |
| | | | | 653-1001-ND | 139.57 | 122.12 | 104.68 | 87.23 | E-12-U |
| 15.1 | 342 x 266 x 6.8 | RS-232 USB | 306 x 230 | 653-1002-ND | 161.52 | 141.33 | 121.15 | 100.96 | E-15-C |
| | | | | 653-1003-ND | 161.52 | 141.33 | 121.15 | 100.96 | E-15-U |
| 17 | 376 x 308 x 6.8 | RS-232 USB | 340 x 272 | 653-1004-ND | 181.91 | 159.17 | 136.43 | 113.70 | E-17-C |
| | | | | 653-1005-ND | 181.91 | 159.17 | 136.43 | 113.70 | E-17-U |
| 19 | 414 x 339 x 6.8 | RS-232 USB | 378 x 303 | 653-1006-ND | 214.84 | 187.99 | 161.13 | 134.28 | E-19-C |
| | | | | 653-1007-ND | 214.84 | 187.99 | 161.13 | 134.28 | E-19-U |
| K Series - Side Mount | | | | | | | | | |
| 12 | 327.2 x 237.2 x 10.3 | RS-232 USB | 246 x 185 | 653-1016-ND | 161.52 | 141.33 | 121.15 | 100.96 | K-12-C |
| | | | | 653-1017-ND | 161.52 | 141.33 | 121.15 | 100.96 | K-12-U |
| 15 | 395 x 283.2 x 10.3 | RS-232 USB | 307 x 231 | 653-1018-ND | 186.61 | 163.29 | 139.96 | 116.64 | K-15-C |
| | | | | 653-1019-ND | 186.61 | 163.29 | 139.96 | 116.64 | K-15-U |
| 17 | 429.2 x 331.2 x 11.0 | RS-232 USB | 338.5 x 271 | 653-1020-ND | 208.57 | 182.50 | 156.43 | 130.36 | K-17-C |
| | | | | 653-1021-ND | 208.57 | 182.50 | 156.43 | 130.36 | K-17-U |
| 19 | 460.2 x 352.1 x 11.0 | RS-232 USB | 376.1 x 301.1 | 653-1022-ND | 247.77 | 216.80 | 185.83 | 154.86 | K-19-C |
| | | | | 653-1023-ND | 247.77 | 216.80 | 185.83 | 154.86 | K-19-U |

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