



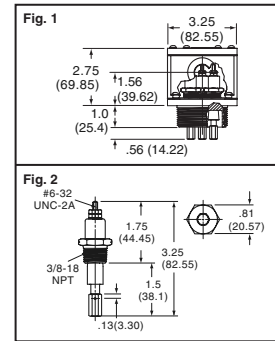
Electromechanical Controls

Series 3E - Conductive Switches: Specifications: • Pressure/Temperature: 125 psig @ 353°F (cast iron); 250 psig @ 406°F (brass)

Fig.	Vessel/Boss Thread	Terminal Housing Size WxDxH - Inches (mm)	No. of Probes	Body Material	Digi-Key Part No.	1	10	100	Gems Part No.
1	2" NPT / 1/2" NPT	3-1/4 x 3-1/4 x 2-3/8" (82.55 x 82.55 x 60.33)	2	Red Brass	376-1070-ND	81.81	80.18	78.54	3E2B
	4		Red Brass	376-1072-ND	129.94	127.34	124.74	3E4B	
	3		Cast Iron	376-1075-ND	89.38	87.59	85.80	3E3A	

Series 3B - Two Piece Threaded Coupling: Specifications: • Pressure/Temperature: 400 psig @ 406°F • Body Material - 316 Stainless Steel

Fig.	Thread / Probes Required	Digi-Key Part No.	1	10	100	Gems Part No.
2	3/8"-18NPT / 3R Series	376-1067-ND	17.88	17.52	17.16	3B1B



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	34.00	27.20	—
ESR film, 30 sheet product kit	3M5510-KIT-ND	739.50	—	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	29.33	23.47	—
BEF II, 30 sheet product kit	50	3M5511-KIT-ND	660.00	—	98043985039
BEF II, 1 sheet	24	3M5512-ND	29.33	23.47	—
BEF II, 30 sheet product kit	24	3M5512-KIT-ND	660.00	—	98043985609
BEF III-M, 1 sheet	50	3M5513-ND†	29.33	23.47	—
BEF III-M, 30 sheet product kit	50	3M5513-KIT-ND†	660.00	—	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.
DBEF-E Film, 0°, 17 in. x 17 in., 1 Sheet	3M5670-ND	112.20	—
DBEF-E Film, 0°, 17 in. x 17 in., 10 Sheet Kit	3M5670-KIT-ND	957.00	98-0440-0359-2
DBEF-E Film, 45°, 17 in. x 17 in., 1 Sheet	3M5671-ND	112.20	—
DBEF-E Film, 45°, 17 in. x 17 in., 10 Sheet Kit	3M5671-KIT-ND	957.00	98-0440-0360-0
DBEF-D400, 0°, 17 in. x 17 in., 1 Sheet	3M5672-ND	138.55	—
DBEF-D400, 0°, 17 in. x 17 in., 10 Sheet Kit	3M5672-KIT-ND	1181.75	98-0440-4277-2
DBEF-D400, 45°, 17 in. x 17 in., 1 Sheet	3M5673-ND	138.55	—
DBEF-D400, 45°, 17 in. x 17 in., 10 Sheet Kit	3M5673-KIT-ND	1181.75	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	15.25	—	98044042731
ARMR200, 9.74 in. x 7.32 in. 1 sheet	3M5515-ND	18.70	—	—
ARMR200, 9.74 in. x 7.32 in. 5 sheet kit	3M5515-KIT-ND	85.00	—	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	16.52	13.22	—
DQC-M, 12 in. x 9 in., 50 sheet kit	3M5516-KIT-ND	619.50	—	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.
ALCF-P, Gloss finish, 1 sheet	3M5517-ND	93.50	—
ALCF-P, Gloss finish, 10 sheet kit	3M5517-KIT-ND	797.50	98044042640
ALCF-P, Matte finish, 1 sheet	3M5518-ND	115.60	—
ALCF-P, Matte finish, 10 sheet kit	3M5518-KIT-ND	986.00	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	61.65	51.38	PF12.1
6.46 x 10.29	12.1	3M5589-ND‡	63.45	52.88	PF12.1W
7.99 x 10.63	13.3	3M5590-ND	61.65	51.38	PF13.3
8.44 x 11.25	14.1	3M5591-ND	63.00	52.50	PF14.1
7.50 x 11.99	14.1	3M5592-ND‡	64.80	54.00	PF14.1W

‡ Fits Widescreen Monitors

(Continued)

More Product Available Online: www.digikey.com

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3M Notebook Privacy Computer Filters



Notebook / LCD Computer Filters (Cont.)

Filter Viewing Area H x W (Inch)	Fits Monitor Size (Inch)	Digi-Key Part No.	Price Each			3M Part No.
			1	10	50	
8.98 x 11.98	15.0	3M5593-ND	68.40	57.00		PF15.0
8.18 x 13.09	15.4	3M5594-ND†	70.20	58.50		PF15.4W
10.64 x 13.3	17.0	3M5595-ND	103.28	88.09		PF17.0
9.06 x 14.47	17.0	3M5596-ND†	106.68	90.99		PF17.0W
11.3 x 14.13	18.1	3M5597-ND	110.93	94.62		PF18.1
11.89 x 14.83	19.0	3M5598-ND	123.86	105.65		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	50	
8.56 x 11.58	13-15	—	3M5605-ND	118.90	101.42		PF500L
9.75 x 12.75	14-16	15	3M5599-ND	144.09	122.91		PF400L
9.75 x 12.75	14-16	15	3M5602-ND	144.09	122.91		PF400LB
11.5 x 14.13	16-19	17-18	3M5600-ND	239.46	209.53		PF400XL
11.5 x 14.13	16-19	17-18	3M5603-ND	239.46	209.53		PF400XLB
11.5 x 14.13	16-19	17-18	3M5606-ND	172.19	150.67		PF500XL
13 x 16	19-21	19-20	3M5601-ND	407.54	361.35		PF400XXL
13 x 16	19-21	19-20	3M5604-ND	407.54	361.35		PF400XXLB

◊ Black flat frame

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)	Digi-Key Part No.	Price Each			3M Part No.
		1	10	50	
6.71	3M5519-ND	98.60	84.10	77.14	17-8091-203
8.75	3M5520-ND	102.00	87.00	79.80	17-8921-203
10.83	3M5521-ND	103.70	88.45	81.13	17-8021-203
12.31	3M5522-ND	125.80	107.30	98.42	17-8581-203

Size (Inch)	Digi-Key Part No.	Price Each			3M Part No.
		1	10	50	
15.68	3M5523-ND	168.30	143.55	131.67	17-8031-203
17.54	3M5524-ND	174.40	152.60	141.70	17-8421-203
19.75	3M5525-ND	184.00	161.00	149.50	17-8511-203
20.65	3M5526-ND	192.00	168.00	156.00	17-8441-203
31.80	3M5527-ND	868.80	760.20	705.90	17-8951-205

Controllers

Interface	Sensor Support	Digi-Key Part No.	Price Each			3M Part No.
			1	10	50	
EX II Capacitive Controllers						
USB Serial	ClearTek II	3M5539-ND	78.20	66.70	61.18	EXII-7710UC
		3M5540-ND	78.20	66.70	61.18	EXII-7720SC
MicroTouch SC Resistive Controllers						
USB Serial	4-Wire	3M5541-ND	41.40	37.26	26.91	SC401U
		3M5542-ND	41.40	37.26	26.91	SC402S
USB Serial	5-Wire	3M5543-ND	41.40	37.26	26.91	SC501U
		3M5544-ND	41.40	37.26	26.91	SC502S
USB Serial	8-Wire	3M5545-ND	41.40	37.26	26.91	SC801U
		3M5546-ND	41.40	37.26	26.91	SC802S
Chip Set for Resistive Controller						
—	—	3M5547-ND	20.00	18.00	13.00	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	14.00	12.60	9.10	7319420
Serial, 8 pin, 96" (Teal)	3M5549-ND	14.00	12.60	9.10	7319630
EX II Series Cables					
RS-232, 7 pin, 96" (Pearl)	3M5551-ND	14.00	12.60	9.10	7310101
USB, 5 pin, 96" (Pearl)	3M5552-ND	14.00	12.60	9.10	7312256
USB, 5 pin, 96" (Black)	3M5553-ND	18.00	16.20	11.70	7314420
USB, 5 pin, 23" (Black)	3M5554-ND	14.00	12.60	9.10	7315050
Mounting Tape					
VHB, 3/8 in. x 36 yards	3M5550-ND	61.20	52.20	47.88	24736

IRTOUCH SYSTEMS

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	108.00	94.50	81.00	67.50	E-64-C
				653-1009-ND	108.00	94.50	81.00	67.50	E-64-U
6.5	169 x 136 x 9.1	RS-232 USB	134 x 101	653-1010-ND	108.00	94.50	81.00	67.50	E-65-C
				653-1011-ND	108.00	94.50	81.00	67.50	E-65-U
8.4	210.6 x 161.6 x 6.8	RS-232 USB	171.6 x 128.6	653-1012-ND	138.24	120.96	103.68	86.40	E-84-C
				653-1013-ND	138.24	120.96	103.68	86.40	E-84-U
10.4	244.2 x 191.4 x 6.8	RS-232 USB	211.2 x 158.4	653-1014-ND	170.64	149.31	127.98	106.65	E-104-C
				653-1015-ND	170.64	149.31	127.98	106.65	E-104-U
12.1	281.9 x 220.7 x 6.8	RS-232 USB	246.4 x 185.2	653-1000-ND	192.24	168.21	144.18	120.15	E-12-C
				653-1001-ND	192.24	168.21	144.18	120.15	E-12-U
15.1	342 x 266 x 6.8	RS-232 USB	306 x 230	653-1002-ND	222.48	194.67	166.86	139.05	E-15-C
				653-1003-ND	222.48	194.67	166.86	139.05	E-15-U
17	376 x 308 x 6.8	RS-232 USB	340 x 272	653-1004-ND	250.56	219.24	187.92	156.60	E-17-C
				653-1005-ND	250.56	219.24	187.92	156.60	E-17-U
19	414 x 339 x 6.8	RS-232 USB	378 x 303	653-1006-ND	295.92	258.93	221.94	184.95	E-19-C
				653-1007-ND	295.92	258.93	221.94	184.95	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	222.48	194.67	166.86	139.05	K-12-C
				653-1017-ND	222.48	194.67	166.86	139.05	K-12-U
15	395 x 283.2 x 10.3	RS-232 USB	307 x 231	653-1018-ND	257.04	224.91	192.78	160.65	K-15-C
				653-1019-ND	257.04	224.91	192.78	160.65	K-15-U
17	429.2 x 331.2 x 11.0	RS-232 USB	338.5 x 271	653-1020-ND	287.28	251.37	215.46	179.55	K-17-C
				653-1021-ND	287.28	251.37	215.46	179.55	K-17-U
19	460.2 x 352.1 x 11.0	RS-232 USB	376.1 x 301.1	653-1022-ND	341.28	298.62	255.96	213.30	K-19-C
				653-1023-ND	341.28	298.62	255.96	213.30	K-19-U

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