

STOCK SIZES AND FILTER TYPES

1-12-2006

Thread Diameter x Pitch [mm]	C-MOUNT	M22.5x0.5	M25.5x0.5	M27.0x0.5	M30.5x0.5	M34.0x0.5	M35.5x0.5	M37.0x.75	M37.5x0.5	M40.5x0.5	M43.0x.75	M46.0x.75	M49.0x.75	M52.0x.75	M55.0x.75	M58.0x.75	M62.0x.75	Recommended Filters	
																		Suggested use/ Applications	
External [mm]	25.4	24	27.5	29	32.5	36	37	39	39.5	42	45	48	51	54	57	60	65	Ⓞ = Generally Not Recommended	
Aperture [mm]	19.5	18.5	21	23	26.5	30	31.5	33	33.5	36	39.5	41.5	44.5	47.5	50.5	53.5	57.5		
PART NUMBER																			
FILTER TYPE	PREFIX	SUFFIX																	
FILTER KITS																			
Machine Vision Filter Kit	FK100																		Laboratory Tool
Infrared Filter Kit	IK100																		Laboratory Tool
UV Fluorescence Filter Kit	UK100																		Laboratory Tool
Bandpass Filter Kit	BK100																		Laboratory Tool
PROTECTIVE/UV BLOCK FILTERS																			
Protective Window (Scratch Resist. Acrylic)	AC380																		FDA Applications
Protective Window (A/R coated)	LP340	-25.4																	AR coat Protective window
Protective Window (UV Absorbing)	LP390	-25.4																	Protective window
UV Dichroic Blocking	LP415	-25.4																	Block all UV
UV and Near IR Blocking	BP550	-25.4																	Block infrared+UV
NEUTRAL DENSITY FILTERS																			
Neutral Density OD = 0.3 (50% transmission)	ND030																		Reduce Light
Neutral Density OD = 0.6 (25% transmission)	ND060																		Reduce Light
Neutral Density OD = 0.9 (12% transmission)	ND090																		Reduce Light
Neutral Density OD = 1.2 (6% transmission)	ND120																		Viewing into lamps
POLARIZING FILTERS																			
Linear Polarizer, Rotating (w/locking screw)	PR032																		Reduce glare
Circular Polarizer	PC052																		Autofocus lenses
Linear Polarizing Sheet	PL032	900mm x 600mm x 0.18mm sheets -or- 1000mm x 430mm x .75mm sheets, or cut to specific size required																Mount over lighting	
Infrared Linear Polarizer	PI035																		Reduce IR glare
LIGHT BALANCING FILTERS (FOR COLOR)																			
Light Balancing (Minus Blue)	LA080																		
Light Balancing (Minus Blue +)	LA120																		Correct White LEDs
Light Balancing (Minus Red)	LB080																		Halogen lamp color
Light Balancing (Minus Red +)	LB120																		
Light Balancing (Minus Green)	FL550																		Correct fluorescent lighting color
LONGPASS/COLOR FILTERS*																			
Light Yellow Longpass - 470nm	LP470																		
Yellow Longpass - 500nm	LP500																		Block blue/UV light
Yellow-Orange Longpass - 515nm	LP515																		Block blue/UV light
Orange Longpass - 530nm	LP530																		
Orange Longpass - 550nm	LP550																		
Red-Orange Longpass - 580nm	LP580																		
Red Longpass - 590nm	LP590																		
Red Longpass - 610nm	LP610																		
Red Longpass - 630nm	LP630																		
Dark Red Longpass - 645nm	LP645																		
SHORTPASS/COLOR FILTERS*																			
Blue Dichroic Shortpass - 505nm	SP510																		Gold/Silver sorting
Blue Green Dichroic Shortpass - 570nm	SP570																		Block red light
Cyan Dichroic Shortpass - 585nm	SP585																		Block red & IR light
Blue - Orange Dichroic Shortpass - 625nm	SP625																		Block deep red/NIR
Magenta Dichroic (Green Block) - 465/625nm	NF550																		Block green light
COLOR BANDPASS FILTERS*																			
Blue Bandpass - UV Block - 465nm	BP465																		
Blue Bandpass - UV Block - 470nm	BP470	-25.4																	Blue LEDs/fluorescence
Green-Blue Bandpass - 500 nm	BP500	-25.4																	Ⓞ
Light Green Bandpass - 525nm	BP525	-25.4																	Green LEDs/fluorescence
Green Bandpass - 530nm	BP530																		Ⓞ
Green Dichroic Bandpass - 535nm	BP535																		
Orange Bandpass - 590nm	BP590																		Amber LEDs/fluorescence
Light Red Bandpass - 635nm	BP635	-25.4																	Red LEDs
Dark Red Bandpass - 660nm	BP660	-25.4																	Darker Red LEDs
INFRARED PASS/VISIBLE BLOCK FILTERS*																			
IR Longpass - 695nm	LP695																		IR LEDs - 720nm
IR Longpass - 715nm	LP715																		
IR Longpass - 780nm	LP780																		IR Diode - 810nm
IR Longpass - 830nm	LP830	-25.4																	
IR Longpass - 850nm	LP850																		
IR Dichroic Longpass - 920nm	LP920	-25.4																	IR LEDs - 940nm
IR Longpass - 1000nm	LP1000																		IR Vidicon/InGaAs
IR Bandpass - 695nm	BP695																		NIR Fluorescence
IR Bandpass - 735nm	BP735																		IR LEDs - 735nm
IR Bandpass - 800nm	BP800	-25.4																	Best for THIN filters
IR Bandpass - 850 nm	BP850																		IR LEDs - 850nm
IR Bandpass - 880nm	BP880																		IR LEDs - 880nm
INFRARED BLOCK/VISIBLE PASS FILTERS*																			
NIR and UV Blocking - Pass 400-730nm	BP550	-25.4																	Color Applications
Red/NIR Dichroic Blocking - 625nm	SP625	-25.4																	
Mid-Red/NIR Dichroic Blocking - 645nm	SP645	-25.4																	Exceptional IR blocking
Deep Red/NIR Dichroic Blocking - 675nm	SP675	-25.4																	Exceptional IR blocking
Hot Mirror/NIR Dichroic Blocking - 700nm	SP700	-25.4																	Standard IR blocking
DeepRed/NIR Blocking - 705nm	SP705	-25.4																	Ⓞ
Hot Mirror/NIR Colorless Blocking - 730nm	SP730	-25.4																	Standard IR blocking
Modified IR Dichroic Blocking - 785nm	SP785	-25.4																	
UV BANDPASS FILTERS*																			
Broadband UV Bandpass - 250nm	BP250																		Deep UV Viewing
UV 'A+B' Bandpass - 324nm	BP324	-25.4																	UV imaging
Blacklite/UV 'A' Bandpass - 365nm	BP365																		UV imaging/lighting filter
Deep Blue/UV Bandpass - 435nm	BP435																		Ⓞ

* Wavelength indicated is 50% point of cut-on for longpass and 50% cut-off for shortpass filters. Bandpass filters are named according to center wavelength.

NOTE: Colors shown are approximate color of filter as seen in transmission. Other filter types/sizes/mounts not listed above, unmounted filters and slip-mount filters for lenses without threads are also available.

LARGE SIZES AND FILTER TYPES	Thread Diameter x Pitch [mm]	M67 Dx:75	M68 Dx:75	M72 Dx:75	M77 Dx:75	M82 Dx:75	M86 Dx:75	M95 Dx:75	M105 Dx:1.0	
		External	70	70	75	80	85	90	99	109
		Aperture	63,2	63,2	67,7	73	78,8	80	90	100
1-12-2006		PART NUMBER								
FILTER TYPE		PREFIX								
FILTER KITS										
Machine Vision Filter Kit	FK100	-67	-68	-72	-77	-82	-86	-95	-105	
Infrared Filter Kit	IK100	-67	-68	-72	-77	-82	-86	-95	-105	
UV Fluorescence Filter Kit	UK100	-67	-68	-72	-77	-82	-86	-95	-105	
Bandpass Filter Kit	BK100	-67	-68	-72	-77	-82	-86	-95	-105	
PROTECTIVE/UV BLOCK FILTERS										
Protective Window (Scratch Resist, Acrylic)	AC380	-67	-68	-72	-77	-82	-86	-95	-105	
Protective Window (A/R coated)	LP340	-67	-68	-72	-77	-82	-86	-95	-105	
Protective Window (UV Absorbing)	LP390	-67	-68	-72	-77	-82	-86	-95	-105	
UV Dichroic Blocking	LP415	-67	-68	-72	-77	-82	-86	-95	-105	
UV and Near IR Blocking	BP550	-67	-68	-72	-77	-82	-86	-95	-105	
NEUTRAL DENSITY FILTERS										
Neutral Density OD = 0.3 (50% transmission)	ND030	-67	-68	-72	-77	-82	-86	-95	-105	
Neutral Density OD = 0.6 (25% transmission)	ND060	-67	-68	-72	-77	-82	-86	-95	-105	
Neutral Density OD = 0.9 (12% transmission)	ND090	-67	-68	-72	-77	-82	-86	-95	-105	
Neutral Density OD = 1.2 (6% transmission)	ND120	-67	-68	-72	-77	-82	-86	-95	-105	
POLARIZING FILTERS										
Linear Polarizer, Rotating (w/locking screw)	PR032	-67	-68	-72	-77	-82	-86	-95	-105	
Circular Polarizer	PC052	-67	-68	-72	-77	-82	-86	-95	-105	
Linear Polarizing Sheet	PL032									
LIGHT BALANCING FILTERS (FOR COLOR)										
Light Balancing (Minus Blue)	LA080	-67	-68	-72	-77	-82	-86	-95	-105	
Light Balancing (Minus Blue +)	LA120	-67	-68	-72	-77	-82	-86	-95	-105	
Light Balancing (Minus Red)	LB080	-67	-68	-72	-77	-82	-86	-95	-105	
Light Balancing (Minus Red +)	LB120	-67	-68	-72	-77	-82	-86	-95	-105	
Light Balancing (Minus Green)	FL550	-67	-68	-72	-77	-82	-86	-95	-105	
LONGPASS/COLOR FILTERS*										
Light Yellow Longpass - 470nm	LP470	-67	-68	-72	-77	-82	-86	-95	-105	
Yellow Longpass - 500nm	LP500	-67	-68	-72	-77	-82	-86	-95	-105	
Yellow-Orange Longpass - 515nm	LP515	-67	-68	-72	-77	-82	-86	-95	-105	
Orange Longpass - 530nm	LP530	-67	-68	-72	-77	-82	-86	-95	-105	
Orange Longpass - 550nm	LP550	-67	-68	-72	-77	-82	-86	-95	-105	
Red-Orange Longpass - 580nm	LP580	-67	-68	-72	-77	-82	-86	-95	-105	
Red Longpass - 590nm	LP590	-67	-68	-72	-77	-82	-86	-95	-105	
Red Longpass - 610nm	LP610	-67	-68	-72	-77	-82	-86	-95	-105	
Red Longpass - 630nm	LP630	-67	-68	-72	-77	-82	-86	-95	-105	
Dark Red Longpass - 645nm	LP645	-67	-68	-72	-77	-82	-86	-95	-105	
SHORTPASS/COLOR FILTERS*										
Blue Dichroic Shortpass - 505nm	SP510	-67	-68	-72	-77	-82	-86	-95	-105	
Blue Green Dichroic Shortpass - 570nm	SP570	-67	-68	-72	-77	-82	-86	-95	-105	
Cyan Dichroic Shortpass - 585nm	SP585	-67	-68	-72	-77	-82	-86	-95	-105	
Blue - Orange Dichroic Shortpass - 625nm	SP625	-67	-68	-72	-77	-82	-86	-95	-105	
Magenta Dichroic (Green Block) 465/625nm	NF550	-67	-68	-72	-77	-82	-86	-95	-105	
COLOR BANDPASS FILTERS*										
Blue Bandpass - UV Block - 465nm	BP465	-67	-68	-72	-77	-82	-86	-95	-105	
Blue Bandpass - UV Block - 470nm	BP470	-67	-68	-72	-77	-82	-86	-95	-105	
Green-Blue Bandpass - 500 nm	BP500	-67	-68	-72	-77	-82	-86	-95	-105	
Light Green Bandpass - 525nm	BP525	-67	-68	-72	-77	-82	-86	-95	-105	
Green Bandpass - 530nm	BP530	-67	-68	-72	-77	-82	-86	-95	-105	
Green Dichroic Bandpass - 535nm	BP535	-67	-68	-72	-77	-82	-86	-95	-105	
Orange Bandpass - 590nm	BP590	-67	-68	-72	-77	-82	-86	-95	-105	
Light Red Bandpass - 635nm	BP635	-67	-68	-72	-77	-82	-86	-95	-105	
Dark Red Bandpass - 660nm	BP660	-67	-68	-72	-77	-82	-86	-95	-105	
INFRARED PASS/VISIBLE BLOCK FILTERS*										
IR Longpass - 685nm	LP685	-67	-68	-72	-77	-82	-86	-95	-105	
IR Longpass - 715nm	LP715	-67	-68	-72	-77	-82	-86	-95	-105	
IR Longpass - 780nm	LP780	-67	-68	-72	-77	-82	-86	-95	-105	
IR Longpass - 830nm	LP830	-67	-68	-72	-77	-82	-86	-95	-105	
IR Longpass - 850nm	LP850	-67	-68	-72	-77	-82	-86	-95	-105	
IR Dichroic Longpass - 920nm	LP920	-67	-68	-72	-77	-82	-86	-95	-105	
IR Longpass - 1000nm	LP1000	-67	-68	-72	-77	-82	-86	-95	-105	
IR Bandpass - 695nm	BP695	-67	-68	-72	-77	-82	-86	-95	-105	
IR Bandpass - 735nm	BP735	-67	-68	-72	-77	-82	-86	-95	-105	
IR Bandpass - 800nm	BP800	-67	-68	-72	-77	-82	-86	-95	-105	
IR Bandpass - 850 nm	BP850	-67	-68	-72	-77	-82	-86	-95	-105	
IR Bandpass - 880nm	BP880	-67	-68	-72	-77	-82	-86	-95	-105	
INFRARED BLOCK/VISIBLE PASS FILTERS*										
NIR and UV Blocking - Pass 400-730nm	BP550	-67	-68	-72	-77	-82	-86	-95	-105	
Red/NIR Dichroic Blocking - 625nm	SP625	-67	-68	-72	-77	-82	-86	-95	-105	
Mid-Red/NIR Dichroic Blocking - 645nm	SP645	-67	-68	-72	-77	-82	-86	-95	-105	
Deep Red/NIR Dichroic Blocking - 675nm	SP675	-67	-68	-72	-77	-82	-86	-95	-105	
Hot Mirror/NIR Dichroic Blocking - 700nm	SP700	-67	-68	-72	-77	-82	-86	-95	-105	
DeepRed/NIR Blocking - 705nm	SP705	-67	-68	-72	-77	-82	-86	-95	-105	
Hot Mirror/NIR Colorless Blocking - 730nm	SP730	-67	-68	-72	-77	-82	-86	-95	-105	
Modified IR Dichroic Blocking - 785nm	SP785	-67	-68	-72	-77	-82	-86	-95	-105	
UV BANDPASS FILTERS*										
Broadband UV Bandpass - 250nm	BP250									
UV 'A+B' Bandpass - 324nm	BP324	-67	-68	-72	-77	-82	-86	-95	-105	
Blacklite/UV 'A' Bandpass - 365nm	BP365	-67	-68	-72	-77	-82	-86	-95	-105	
Deep Blue/UV Bandpass - 435nm	BP435	-67	-68	-72	-77	-82	-86	-95	-105	