

Order code

Type	Immersion	-	Cooling	-	λ_{opt}	-	Length	x	Width	-	Pack Type	-	Window	-	FOV
Type	Immersion	-	Cooling	-	λ_{opt}	-	Φ Diameter			-	Pack Type	-	Window	-	FOV

1) PVI-2TE-5-0.1x0.1-TO8-BaF2-35

PV	I	-	2TE	-	5	-	0.1	x	0.1	-	TO8	-	BaF2	-	35
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2) PEM-10.6-1x1-PEM-NO WINDOW

PEM		-		-	10.6	-	1	x	1	-	PEM	-	BaF2	-	
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3) PC-10.6-1x1-BNC-NO WINDOW

PC		-		-	10.6	-	1	x	1	-	BNC	-	NO WINDOW	-	
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4) PVI-2TE-6- ϕ 0.05-TO8-ARGe-60

PV	I	-	2TE	-	6	-	Φ 0.05			-	TO8	-	ARGe	-	60
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Types:

PC – Photoconductors

PV – Single Junction Photovoltaic Devices

PVM – LWIR Multiple Junction Photovoltaic Devices optimized for large area

PEM – Photoelectromagnetic Devices

PCQ – Quadrant Photoconductors

Immersion:

All devices can be monolithically integrated to the optical immersion lens. Add letter 'I' to the end of type symbol for immersed detectors. Hiperhemispherical immersion is offered as a standard

Cooling Type (Cooling)

Our PC, PV and PVM detectors are available as uncooled devices or equipped with multiple stage TE cooling. Add '-2TE', '-3TE' or '-4TE' for two, three or four stage TE cooled devices.

Wavelength Range and Optimum Wavelength (λ_{opt}):

Our standard devices are optimized for specific wavelength see table below. Other wavelength are available as an option.

Type	Optimum Wavelength									
PC, PCI			4	5	6		9	10.6		
PC-2TE, PCI-2TE			4	5	6		9	10.6	12	13
PV, PVI	3	3.4	4	5	6	8				
PV-nTE, PVI-nTE	3	3.4	4	5	6	8		10.6		
PCI-3TE							9	10.6	12	13
PVM, PVMI, PVM-nTE, PVMI-nTE						8		10.6		
PEM, PEMI, PCQ								10.6		

Optical Area availability table

Typical devices are square-shaped. Single junction photovoltaic devices are also available as a circular.

Specify side length and diameter for square and circular areas, respectively.

Type	Length or diameter [mm]									
	0.025	0.05	0.1	0.2	0.25	0.5	1	2	3	4
PV-3	O	X	X	O		O	O			
PV-2TE-3	O	X	X	O		O	O			
PV-3TE-3	O	X	X	O		O	O			
PV-4TE-3	O	X	X	O		O	O			
PVI-3					O	X	X	O		
PVI-2TE-3					O	X	X	O		
PVI-3TE-3					O	X	X	O		
PVI-4TE-3					O	X	X	O		
PV-3.4	O	X	X	O		O	O			
PV-2TE-3.4	O	X	X	O		O	O			
PV-3TE-3.4	O	X	X	O		O	O			
PV-4TE-3.4	O	X	X	O		O	O			
PVI-3.4					O	X	X	O		
PVI-2TE-3.4					O	X	X	O		
PVI-3TE-3.4					O	X	X	O		



Type	Length or diameter [mm]									
	0.025	0.05	0.1	0.2	0.25	0.5	1	2	3	4
PVI-4TE-3.4					O	X	X	O		
PC-4	X	X	X	X	X	X	X	X	X	X
PC-2TE-4	X	X	X	X	X	X	X	X		
PCI-4					X	X	X	X		
PCI-2TE-4					X	X	X	X		
PV-4	O	X	X	O		O	O			
PV-2TE-4	O	X	X	O		O	O			
PV-3TE-4	O	X	X	O		O	O			
PV-4TE-4	O	X	X	O		O	O			
PVI-4					O	X	X	O		
PVI-2TE-4					O	X	X	O		
PVI-3TE-4					O	X	X	O		
PVI-4TE-4					O	X	X	O		
PC-5	X	X	X	X	X	X	X	X	X	X
PC-2TE-5	X	X	X	X	X	X	X	X		
PCI-5					X	X	X	X		
PCI-2TE-5					X	X	X	X		
PV-5	O	X	X	O		O	O			
PV-2TE-5	O	X	X	O		O	O			
PV-3TE-5	O	X	X	O		O	O			
PV-4TE-5	O	X	X	O		O	O			
PVI-5					O	X	X	O		
PVI-2TE-5					O	X	X	O		
PVI-3TE-5					O	X	X	O		
PVI-4TE-5					O	X	X	O		
PC-6	X	X	X	X	X	X	X	X	X	X
PC-2TE-6	X	X	X	X	X	X	X	X		
PCI-6					X	X	X	X		
PCI-2TE-6					X	X	X	X		
PV-6	O	X	X	O		O	O			
PV-2TE-6	O	X	X	O		O	O			
PV-3TE-6	O	X	X	O		O	O			
PV-4TE-6	O	X	X	O		O	O			
PVI-6					O	X	X	O		
PVI-2TE-6					O	X	X	O		
PVI-3TE-6					O	X	X	O		
PVI-4TE-6					O	X	X	O		
PV-8	X	X*	P							
PV-2TE-8	X	X*	P							
PV-3TE-8	X	X*	P							
PV-4TE-8	X	X*	P							
PVI-8				X	X	X*	P			
PVI-2TE-8				X	X	X*	P			
PVI-3TE-8				X	X	X*	P			
PVI-4TE-8				X	X	X*	P			
PVM-8	O	O	X	X	O	O	X	X	X	X
PVM-2TE-8	O	O	X	X	O	O	X	X	X	X
PVMI-8					O	O	X	X		
PVMI-2TE-8					O	O	X	X		
PC-9	X	X	X	X	X	X	X	X	X	X
PC-2TE-9	X	X	X	X	X	X	X	X		
PC-3TE-9	X	X	X	X	X	X	X	X		
PCI-9					X	X	X	X		
PCI-2TE-9					X	X	X	X		
PCI-3TE-9					X	X	X	X		
PC-10.6 (R005)	X	X	X	X	X	X	X	X	X	X
PC-2TE-10.6	X	X	X	X	X	X	X	X		
PC-3TE-10.6	X	X	X	X	X	X	X	X		
PCI-10.6					X	X	X	X		
PCI-2TE-10.6					X	X	X	X		
PCI-3TE-10.6					X	X	X	X		
PV-2TE-10.6	X	X*	P							
PV-3TE-10.6	X	X*	P							
PV-4TE-10.6	X	X*	P							
PVI-2TE-10.6				X	X	X*	P			
PVI-3TE-10.6				X	X	X*	P			
PVI-4TE-10.6				X	X	X*	P			
PVM-10.6	O	O	X	X	O	O	X	X	X	X
PVM-2TE-10.6	O	O	X	X	O	O	X	X	X	X
PVMI-10.6					O	O	X	X		
PVMI-2TE-10.6					O	O	X	X		
PVMI-3TE-10.6					O	O	X	X		
PEM-10.6			O	O	O	O	X	X		
PEMI-10.6					O	O	X	X		
PCQ-10.6		X	X	X	X	X	X	X	X	X
PC-2TE-12	X	X	X	X	X	X	X	X		
PC-3TE-12	X	X	X	X	X	X	X	X		
PCI-2TE-12					X	X	X	X		
PCI-3TE-12					X	X	X	X		
PC-2TE-13	X	X	X	X	X	X	X	X		
PC-3TE-13	X	X	X	X	X	X	X	X		
PCI-2TE-13					X	X	X	X		
PCI-3TE-13					X	X	X	X		

*) Devices may require reverse bias in order to increase dynamic resistance and improve frequency response.

X – standard detector operating without bias

P – default - operating with reverse bias

O – detectors available on request, parameters may vary from these in data sheets.

Package Type (Pack_Type): Devices are typically offered in 5 different packages:

Type	Pack_Type
PC,PCI, PV, PVI, PVM, PVMI	BNC, TO39
PC-2TE,PCI-2TE, PV-2TE, PVI-2TE, PVM-2TE, PVMI-2TE, PCI-3TE, PVI-3TE, PVI-4TE	TO8
PEM, PEMI	PEM
PCQ	PCQ

Window Type (Window): Cooled devices are typically offered with wedged BaF₂ window. When no window is needed, "NO WINDOW" attribute must be added. Windows are available as following options:

Window	Symbol	Window	Symbol
BaF ₂ Wedged	BaF2 Wedged	sapphire	Al2O3
BaF ₂ P Planar	BaF2P Planar	AR-coated Si	ARSi
BaF ₂	BaF2	AR-coated Ge	ARGe
ZnSe	ZnSe		
CdTe	CdTe		
CaF ₂	CaF2		

FOV - Field of View: Angular field of view of detector in degrees. Depends on type of immersion lens applied and package used for the detector.