



## NEP 红外探测器系列

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# STEVEN SEPVEST CORPORATION

## 简介

史迪文公司提供以下 NEP 系列产品，客户产品开发和使用时出现的问题，欢迎来信讨论，我们会尽力帮助解决：

硫化铅红外光敏电阻系列 (PbS)

电子冷却硫化铅红外光敏电阻系列 (TEC PbS)

硒化铅红外光敏电阻 (PbSe)

电子冷却硒化铅红外光敏电阻 (TEC PbSe)，以及基于硒化铅的多通道探测器：

红紫外双色探测器

双通道红外二氧化碳探测器

双通道红外酒精探测器

双通道红外一氧化碳探测器

四通道红外气体探测器

铟镓砷 InGaAs PIN 光电二极管近红外探测器

电子冷却铟镓砷近红外探测器

扩展型铟镓砷探测器

硫化铅和硒化铅探测器可以根据不同的应用选用不同的滤光片，窄带、宽带、可见光阻止等等，我们提供定制，欢迎来信咨询。

美国 NEP 专业生产各种规格高品质硫化铅,硒化铅,铟镓砷红外探测器，应用领域包括：

- 火焰探测器，锅炉控制等
- 气体分析仪，包括工业气体、汽车尾气等
- 湿度分析仪
- 红外温度测量，火车轴温监测，光学高温计
- 光谱仪
- 光纤通信
- 蛋白质成分分析仪

STEVEN SEPVEST CORPORATION

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# STEVEN SEPVEST CORPORATION

NEP 常温硫化铅红外探测器:

## 电气参数:

Test Conditions at 23°C – Typical	A & AM	B & BM	C & CM
D* (Pk.,600,1) x 10 <sup>11</sup>	.5-1.2	.5-1.2	.5-1.2
Peak Wavelength Response – Microns	2.5	2.5	2.2
Time Constant – Microseconds	<100	100-300	>300
Resistance – Megohms	.2-2.0	.2-2.0	.5-10

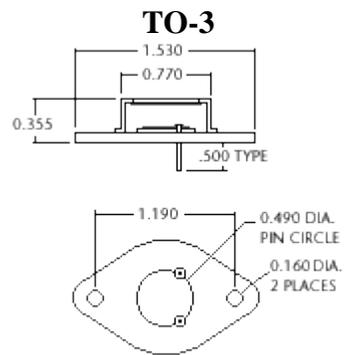
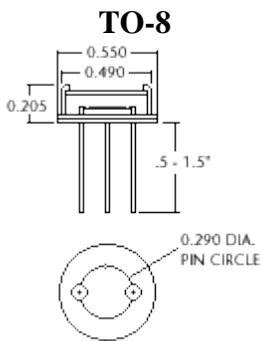
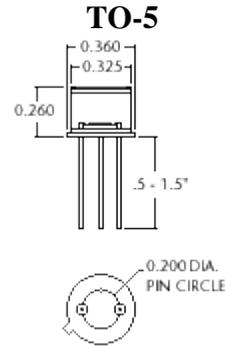
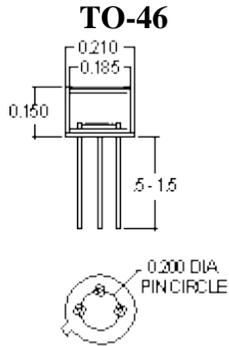
## 探测单元参数:

Code Number	Active Area		Bias Voltage		Typical VW-1 Responsivity	Package Size
	Inches	Mm	Typical			
.25	.010	.25	10		8-10x10 <sup>5</sup>	TO-5 & TO-46
.5	.020	.5	20		7-9x10 <sup>5</sup>	TO-5 & TO-46
1	.040	1	50		5-8x10 <sup>5</sup>	TO-5 & TO-46
2	.080	2	100		2-6x10 <sup>5</sup>	TO-5
3	.120	3	150		1-3x10 <sup>5</sup>	TO-5
5	.200	5	250		.9-2x10 <sup>5</sup>	TO-8
10	.400	10	500		4-8x10 <sup>4</sup>	TO-3



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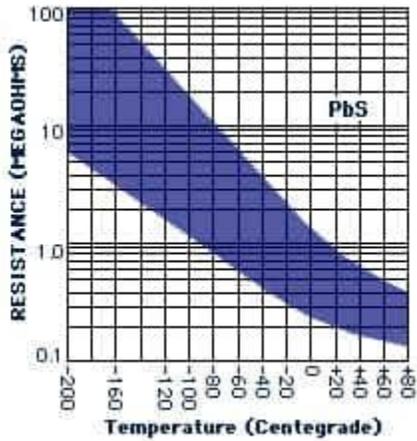
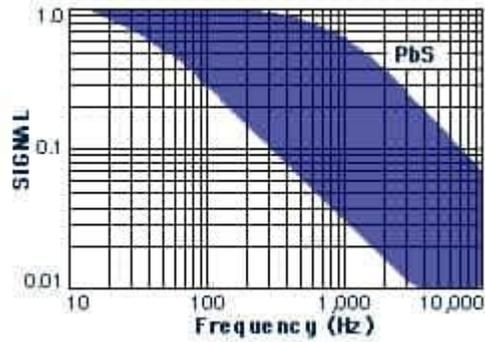
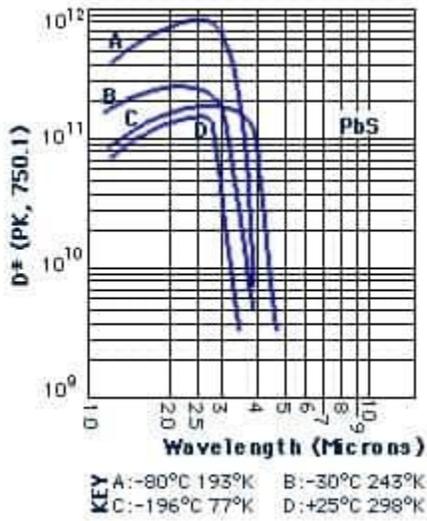
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# STEVEN SEPVEST CORPORATION

## 硫化铅探测器响应曲线





# STEVEN SEPVEST CORPORATION

电子冷却硫化铅探测器

电气参数:

Test Conditions at 25° C –Typical	D	D2	D21
D* (Pk.,600,1) x 10 <sup>11</sup>	1.5	2.5	2.8
Peak Wavelength Response – Microns	2.5	2.6	2.7
Time Constant - Milliseconds Typ	800	1200	1800
Resistance – Megohms	2-10	2-12	2-1 5
Operating Temperature - °C	-25	-35	-50
Cooler Power - Volts DC/Amps	1V/2A	.8V/1.3A	1.9V/1.4A

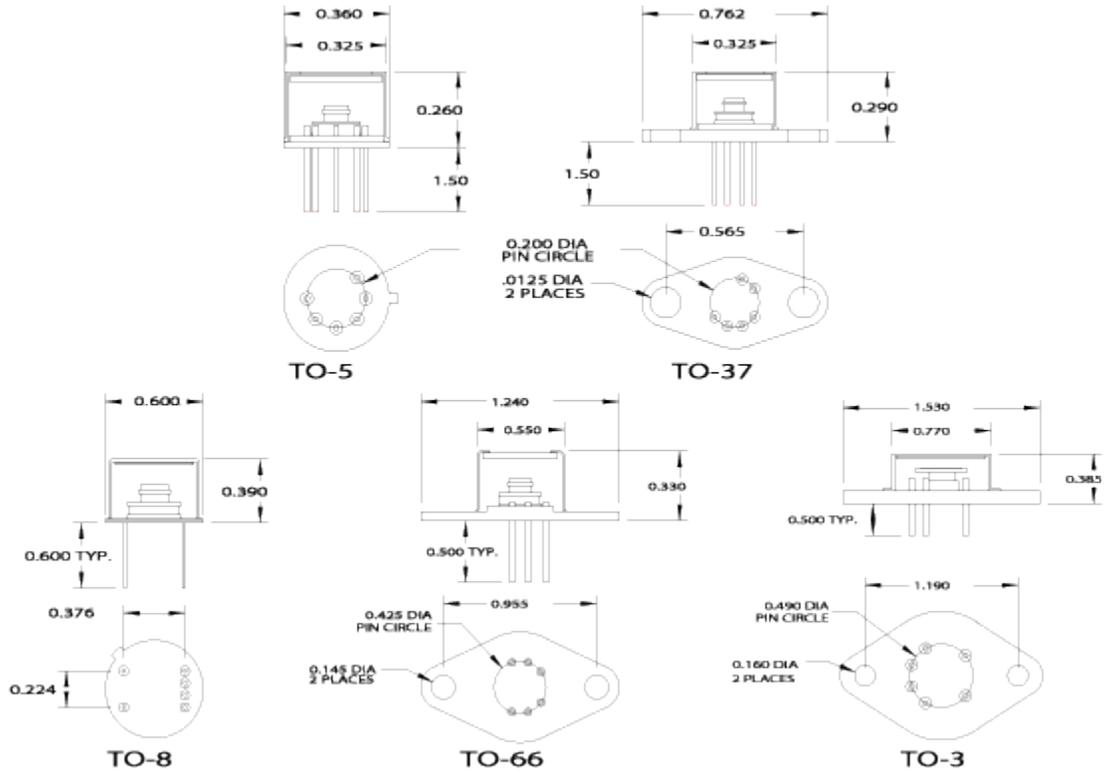
探测单元参数:

Code Number	Active Area		Bias Voltage Typical	Typical VW <sup>-1x15</sup> Responsivity			Package Size
	Inches	Mm		-25	-35	-50	
1	.040	1	50	.9-1x10 <sup>6</sup>	1-2x10 <sup>6</sup>	1.5-2.5x10 <sup>6</sup>	TO-5-37-8-66
2	.080	2	100	6-9x10 <sup>5</sup>	.6-1x10 <sup>6</sup>	0.6-1.2x10 <sup>6</sup>	TO-5-37-8-66
3	.120	3	150	4-6x10 <sup>5</sup>	4-6x10 <sup>5</sup>	4-6x10 <sup>5</sup>	TO-5-37-8-66
5	.200	5	250	2-4x10 <sup>5</sup>	NA	2-4x10 <sup>5</sup>	TO-8-66
10	.400	10	500	1-2x10 <sup>5</sup>	NA	NA	TO-3



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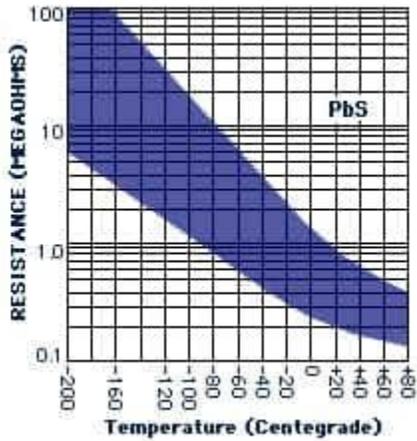
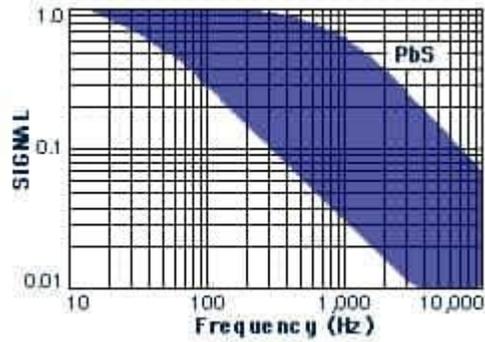
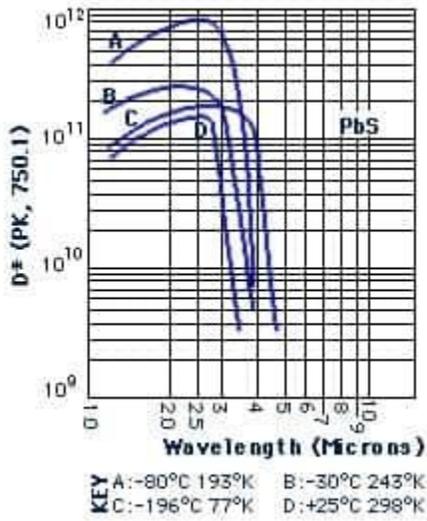
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# STEVEN SEPVEST CORPORATION

## 硫化铅探测器响应曲线





# STEVEN SEPVEST CORPORATION

NEP 常温硒化铅探测器:

电气参数:

Test Conditions at 23°C - Typical	F & FM	FA & FAM	FS & FSM
D* (Pk.,1000,1) x 10 <sup>10</sup>	.1 - .3	.4 - .5	.6-1.5
Peak Wavelength Response - Microns Typ	3.8	3.8	3.8
Time Constant – Microseconds	2 - 5	2 - 5	2 - 5
Resistance – Megohms	.1 - 4	.1 - 4	.1 - 4

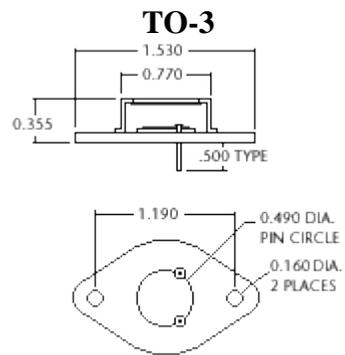
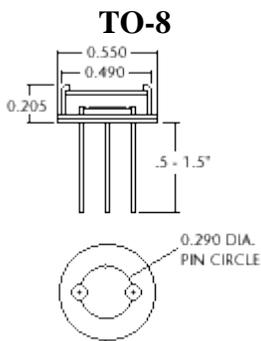
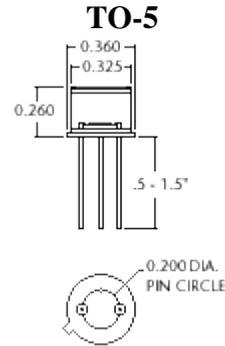
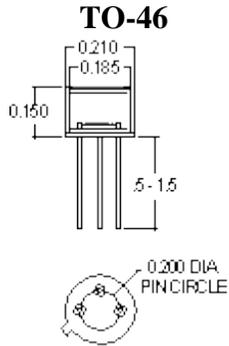
探测单元参数:

Code Number	Active Area		Bias Voltage		Package Size
	Inches	mm	Typical	Typical VW-1	
1	.040	1	50	1-4x10 <sup>4</sup>	TO-5 & TO-46
2	.080	2	100	.5-2x10 <sup>4</sup>	TO-5
3	.120	3	150	.4-1x10 <sup>4</sup>	TO-5
5	.200	5	250	3-6x10 <sup>3</sup>	TO-8
10	.400	10	500	600	TO-3



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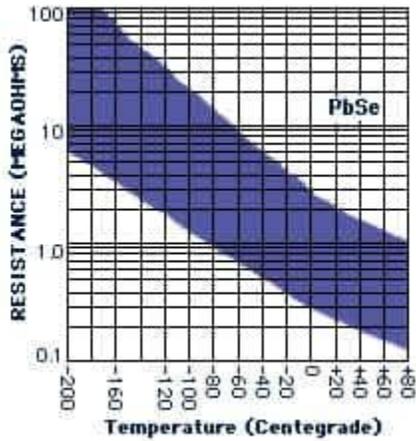
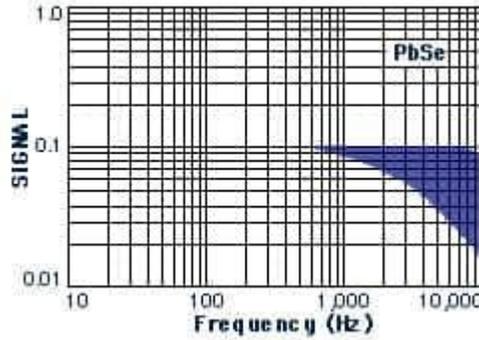
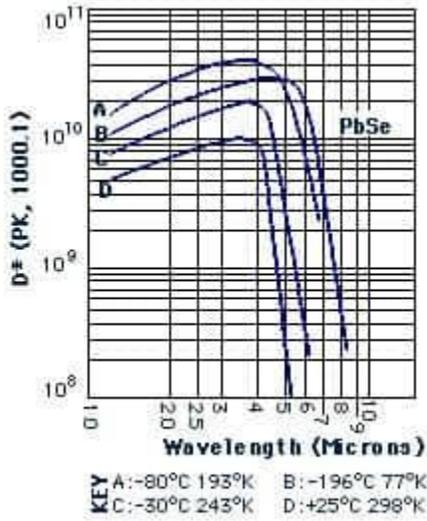
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# STEVEN SEPVEST CORPORATION

## 硒化铅探测器响应曲线





# STEVEN SEPVEST CORPORATION

## NEP 电子冷却硒化铅探测器

### ELECTRICAL SPECIFICATIONS

Test Conditions at 25° C	G	G2	G21
D* (Pk.,1000,1) x 10 <sup>10</sup>	1-3	1-3	2-4
Peak Wavelength Response - Microns	4.3	4.4	4.6
Time Constant - Micro Seconds	5-10	15	20
Resistance – Megohms	.2 - 7	.2 - 10	.2 - 15
Operating Temperature - °C	-25	-35	-50
Cooler Power	1.2V/2A	.8vV/1.3A	2.2V/1.2A

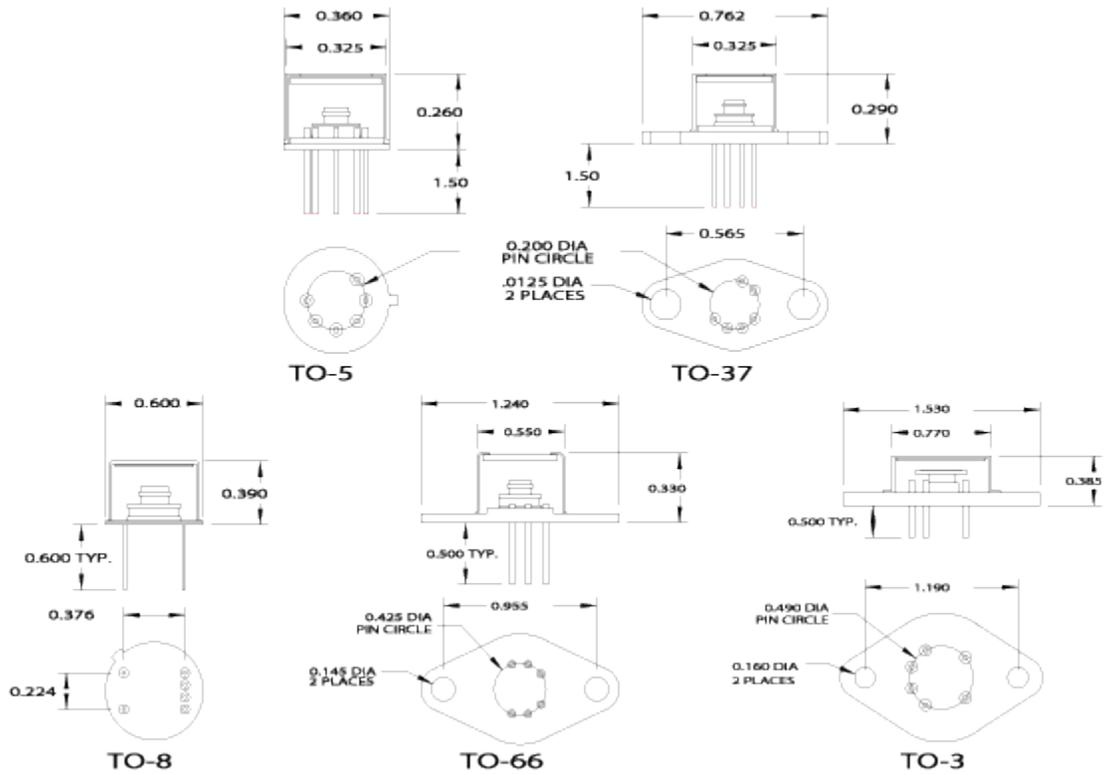
### ACTIVE AREA SPECIFICATIONS

Code Number	Active Area		Bias Voltage	Typical VW-1 Responsivity			Package Size
	Inches	mm	Typical	-25	-35	-50	
1	.040	1	50	4-6x10 <sup>4</sup>	6-10x10 <sup>4</sup>	10-15x10 <sup>4</sup>	TO-5-37-8-66
2	.080	2	100	2-3x10 <sup>4</sup>	3-5x10 <sup>4</sup>	5-8x10 <sup>4</sup>	TO-5-37-8-66
3	.120	3	150	1-2x10 <sup>4</sup>	2-3x10 <sup>4</sup>	3-5x10 <sup>4</sup>	TO-5-37-8-66
5	.200	5	250	.8-1x10 <sup>4</sup>	NA	NA	TO-8-66
10	.400	10	500	4-6x10 <sup>3</sup>	NA	NA	TO-3



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STEVEN SEPVEST CORPORATION

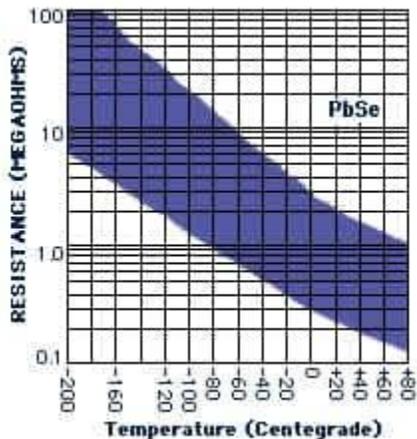
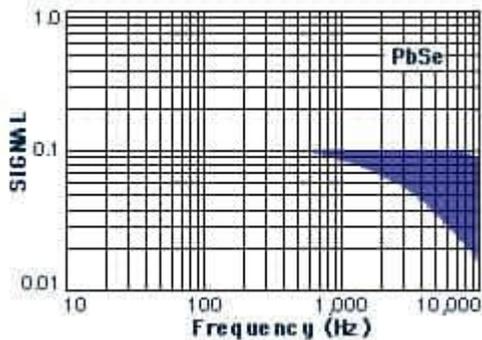
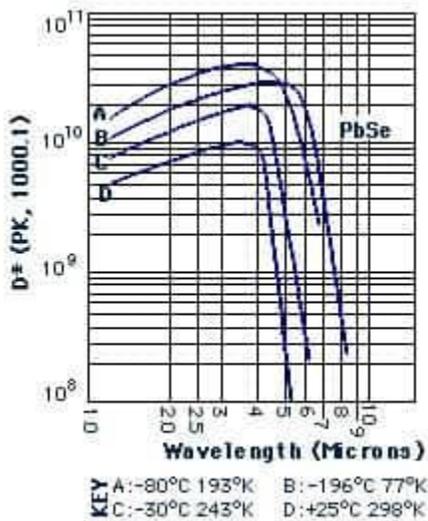
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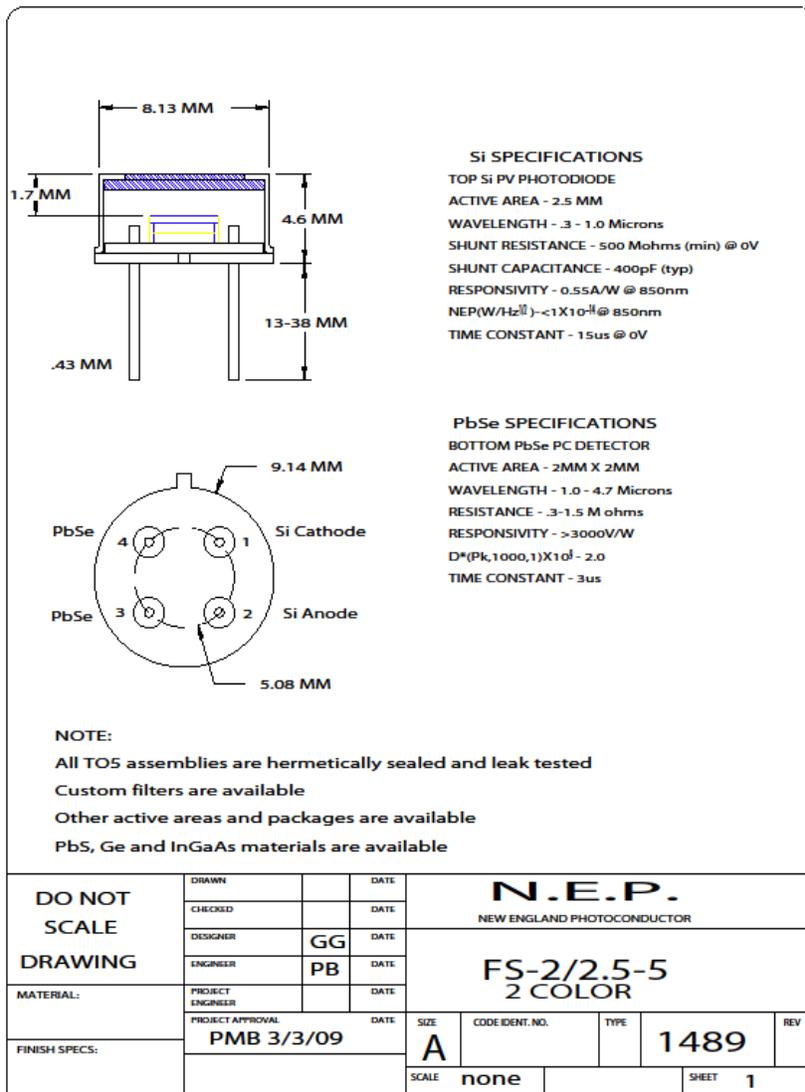
## 硒化铅探测响应曲线





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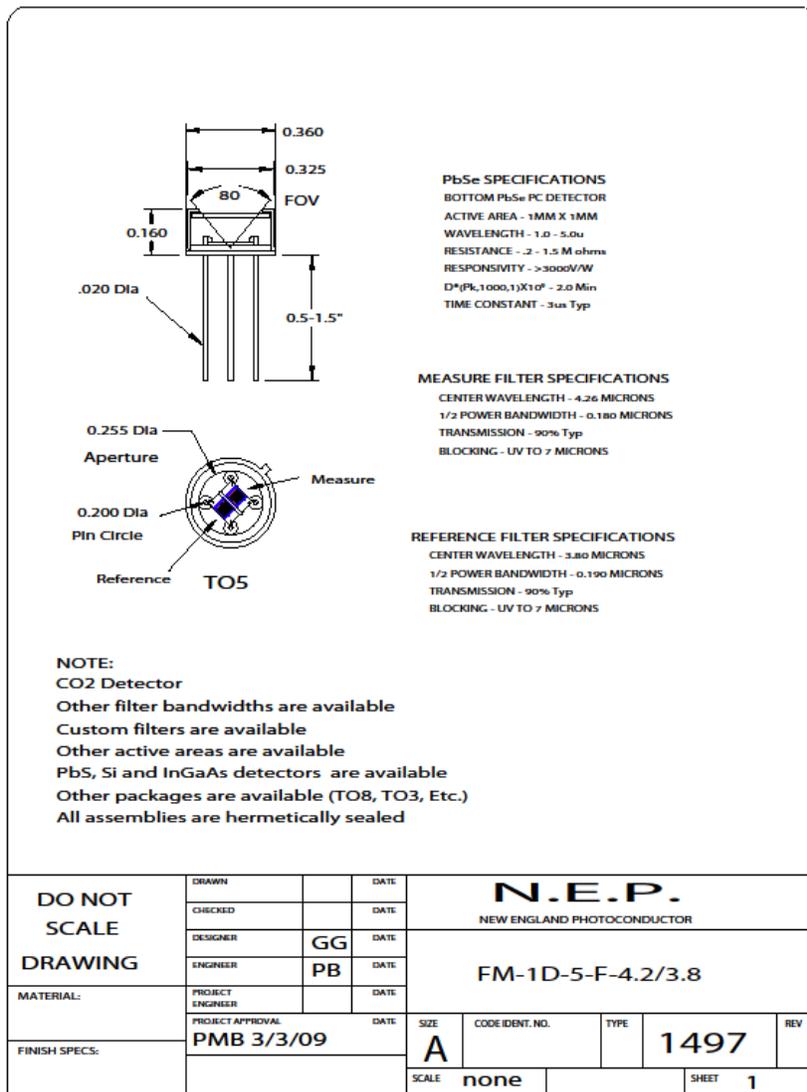
## 红紫外双色探测器





# STEVEN SEPVEST CORPORATION

## 双通道红外二氧化碳探测器





# STEVEN SEPVEST CORPORATION

## 双通道红外酒精探测器

0.360  
0.325  
80  
FOV  
0.160  
0.020 Dia  
0.255 Dia Aperture  
0.200 Dia Pin Circle  
Reference  
TO5  
Measure

**PbSe SPECIFICATIONS**  
 PbSe PC DETECTOR  
 ACTIVE AREA - 1MM X 1MM  
 WAVELENGTH - 1.0 - 5.0u  
 RESISTANCE - 2 - 1.5 M ohms  
 RESPONSIVITY - >3000V/W  
 D\*Pk:1000.1X 10<sup>7</sup> - 99992.0 Min  
 TIME CONSTANT - 3us Typ

**MEASURE FILTER SPECIFICATIONS**  
 CENTER WAVELENGTH - 3.40 MICRONS  
 1/2 POWER BANDWIDTH - 0.300 MICRONS  
 TRANSMISSION - 88% Typ  
 BLOCKING - UV TO 7 MICRONS

**REFERENCE FILTER SPECIFICATIONS**  
 CENTER WAVELENGTH - 3.80 MICRONS  
 1/2 POWER BANDWIDTH - 0.190 MICRONS  
 TRANSMISSION - 90% Typ  
 BLOCKING - UV TO 7 MICRONS

**NOTE:**  
 HC Detector (Alcohol)  
 Other filter bandwidths are available  
 Custom filters are available  
 Other active areas are available  
 PbS, Si and InGaAs detectors are available  
 Other packages are available (TO8, TO3, Etc.)  
 All assemblies are hermetically sealed

<b>DO NOT SCALE DRAWING</b>	DRAWN		DATE	<b>N.E.P.</b> NEW ENGLAND PHOTOCONDUCTOR  <b>FM-1D-5-F-3.4/3.8</b>				
	CHECKED		DATE					
	DESIGNER	<b>GG</b>	DATE					
	ENGINEER	<b>PB</b>	DATE					
MATERIAL:	PROJECT ENGINEER		DATE	SIZE	CODE IDENT. NO.	TYPE	REV	
FINISH SPECS:	PROJECT APPROVAL <b>PMB 3/3/09</b>			<b>A</b>		<b>1499</b>		
				SCALE	<b>none</b>		SHEET	<b>1</b>



# STEVEN SEPVEST CORPORATION

## 双通道红外一氧化碳探测器

**PbSe SPECIFICATIONS**  
 PbSe PC DETECTOR  
 ACTIVE AREA - 1MM X 1MM  
 WAVELENGTH - 1.0 - 5.0u  
 RESISTANCE - 2 - 1.5 Mohms  
 RESPONSIVITY - >3000V/W  
 D\*(Pk:1000.1)X10<sup>-7</sup> - 2.0 Min  
 TIME CONSTANT - 3us Typ

**MEASURE FILTER SPECIFICATIONS**  
 CENTER WAVELENGTH - 4.65 MICRONS  
 1/2 POWER BANDWIDTH - 0.150 MICRONS  
 TRANSMISSION - 90% Typ  
 BLOCKING - UV TO 7 MICRONS

**REFERENCE FILTER SPECIFICATIONS**  
 CENTER WAVELENGTH - 3.80 MICRONS  
 1/2 POWER BANDWIDTH - 0.190 MICRONS  
 TRANSMISSION - 85% Typ  
 BLOCKING - UV TO 7 MICRONS

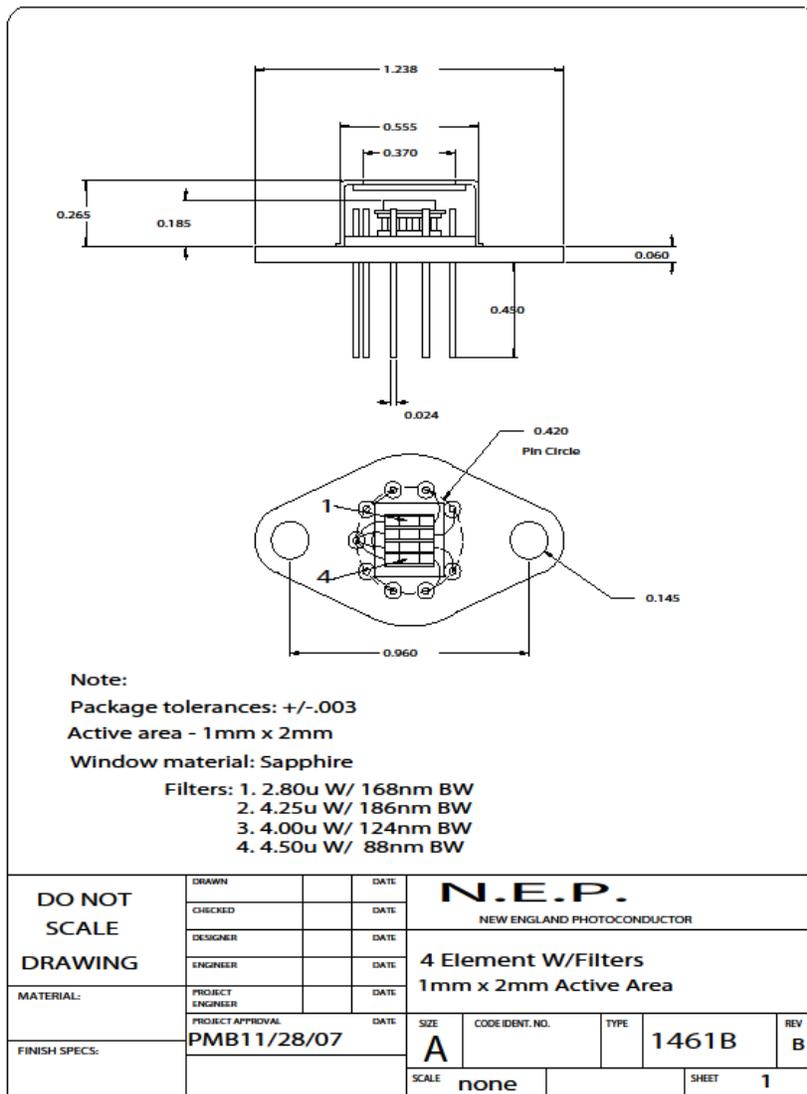
**NOTE:**  
 CO Detector  
 Other filter bandwidths are available  
 Custom filters are available  
 Other active areas are available  
 PbS, Si and InGaAs detectors are available  
 Other packages are available (TO8, TO3, Etc.)  
 All assemblies are hermetically sealed

<b>DO NOT SCALE DRAWING</b>	DRAWN		DATE	<b>N.E.P.</b> NEW ENGLAND PHOTOCONDUCTOR				
	CHECKED		DATE					
	DESIGNER	GG	DATE	<b>FM-1D-5-F-4.6/3.8</b>				
	ENGINEER	PB	DATE					
MATERIAL:	PROJECT ENGINEER		DATE	SIZE	CODE IDENT. NO.	TYPE	REV	
FINISH SPECS:	PROJECT APPROVAL <b>PMB 3/3/09</b>			<b>A</b>		<b>1498</b>		
				SCALE	none		SHEET	1



# STEVEN SEPVEST CORPORATION

## 四通道红外气体探测器





# STEVEN SEPVEST CORPORATION

## 铟镓砷探测器 (InGaAs PIN Photo Diode)

### INGAAS PIN PHOTODIODE

Part Number	I-.10	I-.30	I-.50
Active Area Diameter um	100	300	500
Responsivity @ 1300nm A/W Min/Typ	0.80/0.90	0.80/0.90	0.80/0.90
Responsivity @ 1550nm A/W Min/Typ	0.90/0.95	0.90/0.95	0.90/0.95
Dark Current @ 5V nA Max/Typ	1.0/1.05	5.0/1.0	25/5
Capacitance @ 5V pF Max/Typ	1.2/1.0	8.0/4.0	40@0V
Bandwidth 50Ω-3dB MHz Min @5V	2.0	0.7	0.20
Rise/Fall time RL= 50Ω ns Max @ 5V	0.1	0.25	0.50
NEP @ 1550nm W/√Hz Typ	1.5E-15	5E-15	8E-15
Storage Temperature °C	-40 to 125	-40 to 125	-40 to 125
Operating temperature °C	-40 to 85	-40 to 85	-40 to 85
Reverse Voltage V	25	25	20
Reverse Current mA	10	10	10
Forward Current mA	10	10	10
Package Options * (Note)	CH-CE-46-46L	CH-CE-46-46L	CH-CE-46-46L

Part Number	I-1	I-2	I-3	I-5
Active Area Diameter mm	1.0	2.0	3.0	5.0
Responsivity @ 1300nm A/W Min/Typ	0.80/0.90	0.80/0.90	0.80/0.90	0.80/0.90
Responsivity @ 1550nm A/W Min/Typ	0.90/0.95	0.90/0.95	0.90/0.95	0.90/0.95
Dark Current nA Max/Min	100/25 @5V	200/50 @1V	500/200 @1V	5000 @0.3V
C @ 0V pF Max/Min	120/80	500/300	1000/600	1500/1000
C pF Max/Min	50/30 @-5V	150/100@-3V	300/250@-2V	3000/2000
Bandwidth 50Ω-3dB MHz	40@5V	5.3@0V	4.0@0V	1@0V
T, RL= 50Ω ns Typ	5.0@5V	50@0V	100@0V	300@0V
Res, MΩ Min/Typ	10/50	6/30	2.0/8	0.025/0.050
NEP @1550 nm W/√Hz Typ	.01	.03	.05	.28
Linear Range (±0.2dB) dBm	10	8	8	8
Storage Temperature °C	-40 to 125	-40 to 125	-40 to 125	-40 to 125
Operating Temperature °C	-40 to 85	-40 to 85	-40 to 85	-40 to 85
Reverse Voltage V	20	3	2	2

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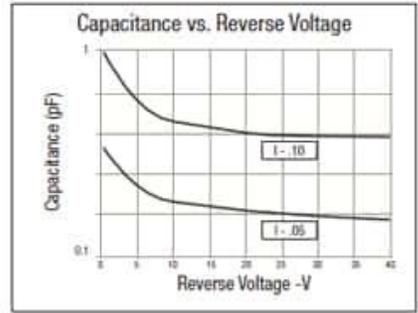
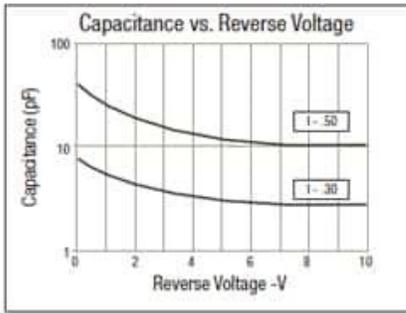
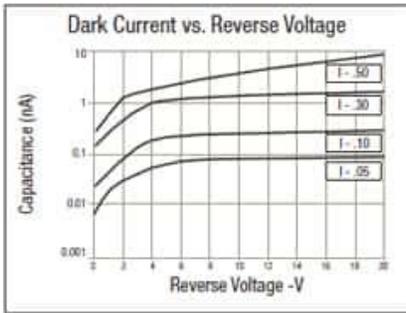
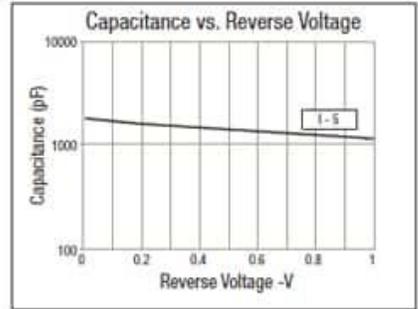
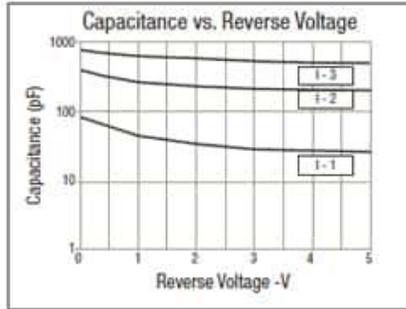
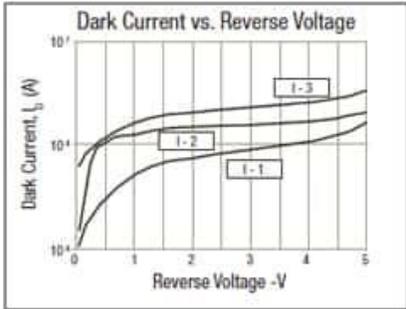
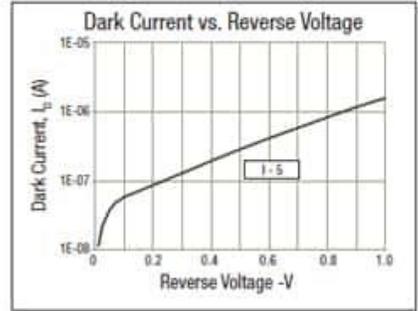
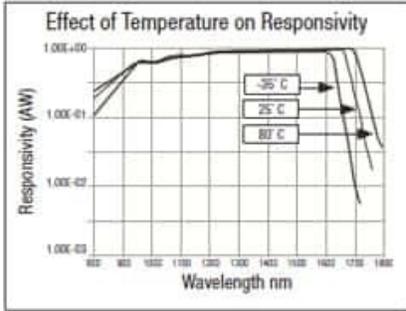
# STEVEN SEPVEST CORPORATION

Reverse Current mA	10	10	10	10
Forward Current mA	10	10	10	10
Power Dissipation mW	100	50	50	50
Package Options * (Note)	CH-CE-46-46L	CH-CE-5	CH-CE-5	CH-CE-8

NOTE: \* CH = Chip CE = Ceramic Carrier 46 = TO46 Hermetic Package 46L  
TO46 Hermetic Lens Package  
5 = TO5 Hermetic Package 8 = TO8 Hermetic Package ~ Custom filters, windows  
and packages are available



# STEVEN SEPVEST CORPORATION



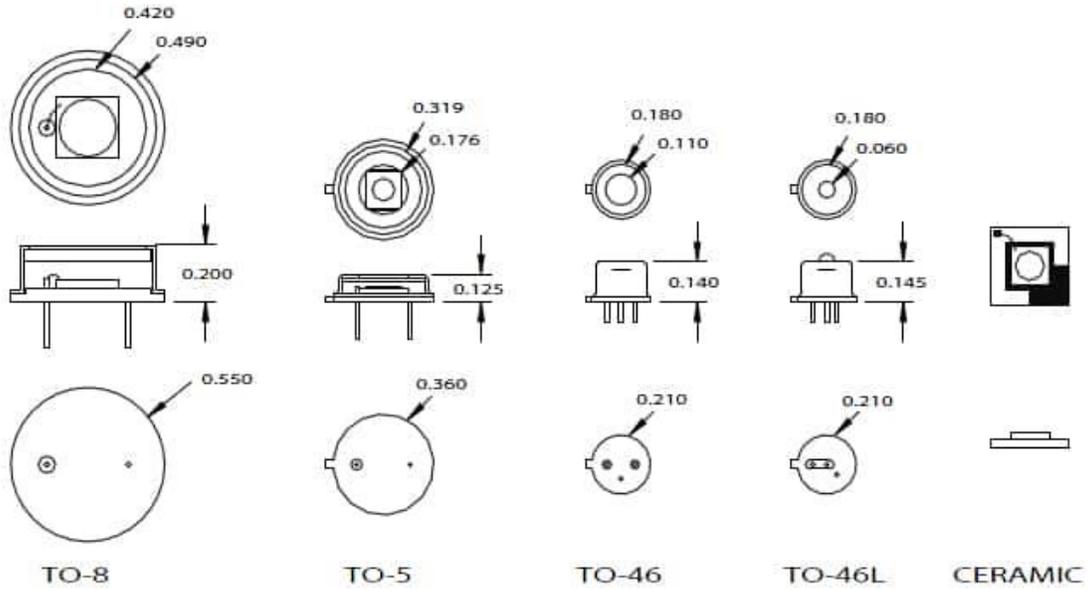
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# STEVEN SEPVEST CORPORATION





# STEVEN SEPVEST CORPORATION

## 电子冷却铟镓砷探测器

Part Number	IC1-1	IC1-2	IC1-3	IC1-5
Active Area Diameter mm	1	2	3	5
Responsivity @ 1300nm A/W Min/Typ	0.80/0.90	0.80/0.90	0.80/0.90	0.80/0.90
Responsivity @ 1550nm A/W Min/Typ	0.90/0.95	0.90/0.95	0.90/0.95	0.90/0.95
NEP @ 1550nm W/√Hz Typ	5.0E-15	1.0E-14	2.0E-14	3.0E-14
Dark Current nA @ 1V Typ/Max	0.07/0.35	0.3/1.5	1.0/5.0	2.5/12.5
Capacitance pF @ 1V	150	550	1000	3500
Cut-Off Frequency @ 1V MHz	18	4	2	0.6
Shunt Resistance M ohms	1500	300	100	30
Reverse Voltage Max	5	5	5	2
Storage Temperature °C	-55 to 85	-55 to 85	-55 to 85	-55 to 85
Test temperature °C	-10	-10	-10	-10
Cooler Power Max	1.0V@2.0A	1.0V@2.0A	1.0V@2.0A	<a href="#">2V@1.3A</a>
Package Options * xx	5, 7	5, 7	5, 7	8, 6
Thermistor @ 25°C**	1K	1K	1K	1K

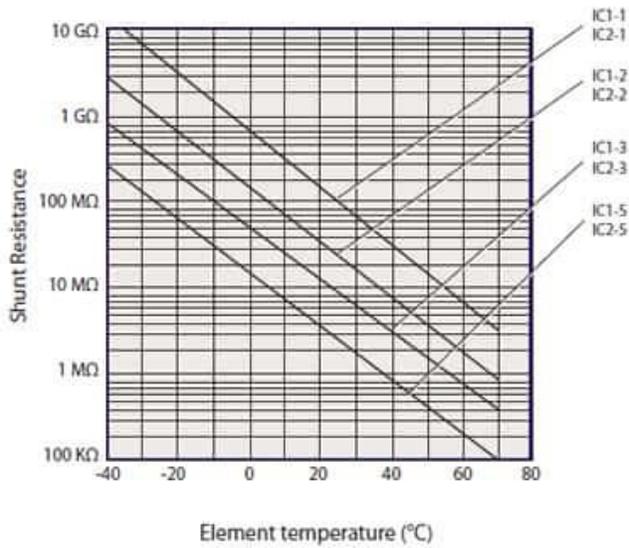
Part Number	IC2-1	IC2-2	IC2-3	IC2-5
Active Area Diameter mm	1	2	3	5
Responsivity @ 1300nm A/W Min/Typ	0.80/0.90	0.80/0.90	0.80/0.90	0.80/0.90
Responsivity @ 1550nm A/W Min/Typ	0.90/0.95	0.90/0.95	0.90/0.95	0.90/0.95
NEP @1550 nm W/√Hz Typ	3E-15	7E-15	1E-14	2E-14
Dark Current nA @ 1V Typ/Max	0.03/0.15	0.15/0.75	0.5/2.5	1.2/6.0
Capacitance pF @ 1V	150	550	1000	3500
Cut-Off Frequency @ 1V MHz	18	4	2	0.6
Shunt Resistance M ohms	3000	600	200	60
Reverse Voltage Max	5	5	5	5
Storage Temperature °C	-55 to 85	-55 to 85	-55 to 85	-55 to 85
Test Temperature °C	-20	-20	-20	-20
Cooler Power Max	0.8V@1.3A	0.8V@1.3A	0.8V@1.3A	<a href="#">1.9V@1.4A</a>
Package Options * xx	5, 7	5, 7	5, 7	8, 6
Thermistor @ 25°C**	1K	1K	1K	1K

NOTE: \* Other Packages are available \*\* Other Thermistors are available xx  
Band Pass Filters are available

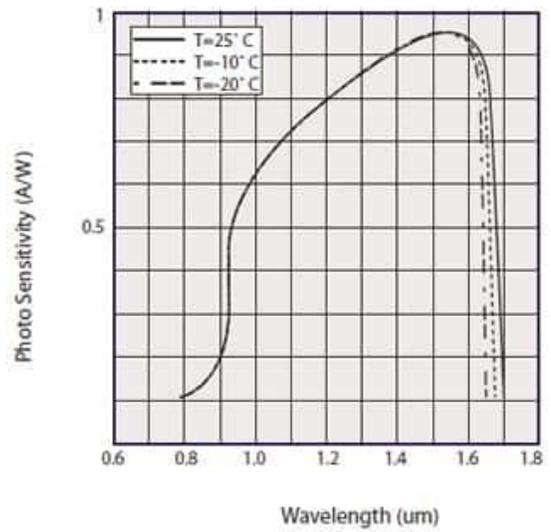


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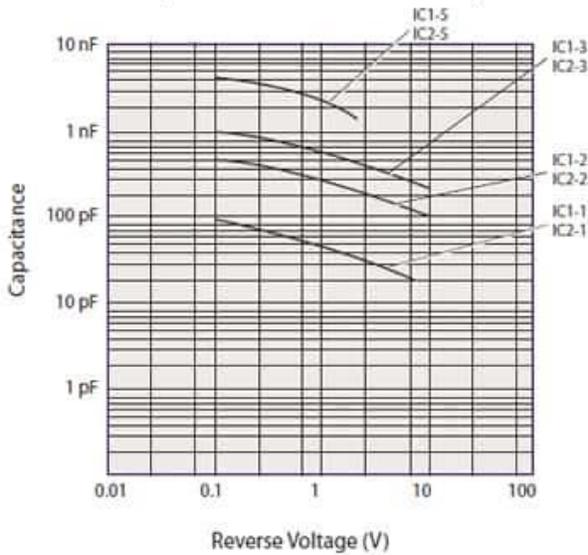
### Shunt Resistance vs. Temperature



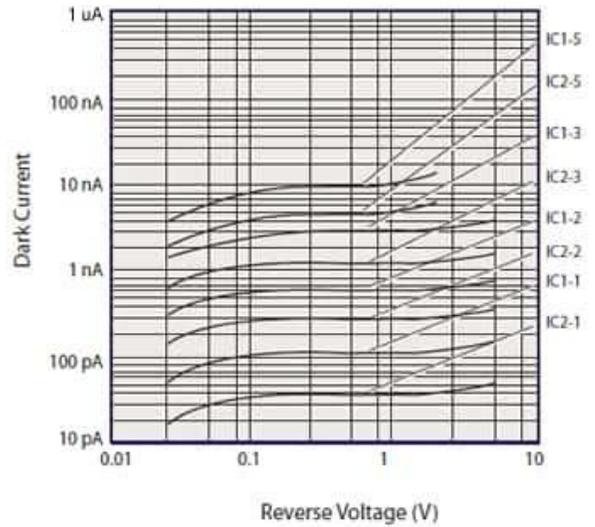
### Spectral Response



### Capacitance vs. Reverse Voltage



### Dark Current vs. Reverse Voltage



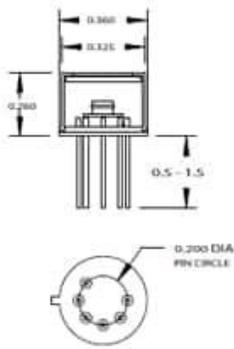
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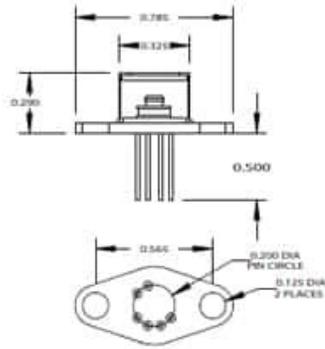
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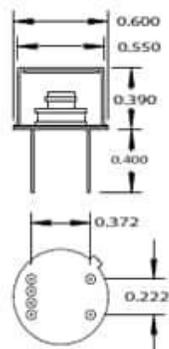
# STEVEN SEPVEST CORPORATION



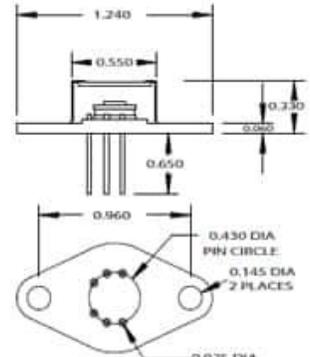
TO-5



TO-37



TO-8



TO-66

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# STEVEN SEPVEST CORPORATION

## 扩展型 InGaAs 探测器(

Room Temperature			
Part Number	IE6-.5	IE6-1	E6-2
Active Area Diameter um	500	1000	2000
Responsivity @ 2300nm A/W Min/Typ	0.9/1.3	0.9/1.3	0.9/1.3
Dark Current @ .5V uA Typ/Max	5/50	15/75	75/100
Capacitance @ 0V pF	60	200	800
Shunt Resistance @ 10mV Kohms	15	3	1
D*(cm.Hz <sup>1/2</sup> /W)	5x10 <sup>10</sup>	5x10 <sup>10</sup>	5x10 <sup>10</sup>
NEP (W/Hz <sup>1/2</sup> )	1x10 <sup>-12</sup>	2x10 <sup>-12</sup>	5x10 <sup>-12</sup>
Spectral Range Microns	1.2-2.6	1.2-2.6	1.2-2.6
Cut-Off Frequency @0V -3dB(MHz)	50	15	5
Test Temperature °C	25	25	25
Storage Temperature °C	-40 to 125	-40 to 125	-40 to 125
Package Options *(Note)	4-5	4-5	4-5

Thermoelectrically Cooled 1 Stage			
Part Number	IE6C1-.5	IE6C1-1	IE6C1-2
Active Area Diameter um	500	1000	2000
Responsivity @ 2300nm A/W Min/Typ	0.9/1.3	0.9/1.3	0.9/1.3
Dark Current @ 0.5V nA Max/Typ	.5/4	1.5/7.5	7.5/40
Capacitance @ 0V pF	60	200	800
Shunt Resistance @ 10mV Kohms	15	3	1
D*(cm.Hz <sup>1/2</sup> /W)	1x10 <sup>11</sup>	1x10 <sup>11</sup>	1x10 <sup>11</sup>
NEP (W/Hz <sup>1/2</sup> )	4x10 <sup>-13</sup>	7x10 <sup>-13</sup>	1x10 <sup>-12</sup>
Spectral Range Microns	1.2-2.57	1.2-2.57	1.2-2.57
Cut-Off Frequency @0V -3dB(MHz)	50	15	5
Test Temperature °C	-10	-10	-10
Storage Temperature °C	-40 to 125	-40 to 125	-40 to 125
Package Options *(Note)	5-7-6-8	5-7-6-8	5-7-6-8

Thermoelectrically Cooled 2 Stage			
Part Number	IE6C2-.5	IE6C2-1	IE6C2-2
Active Area Diameter um	500	1000	2000



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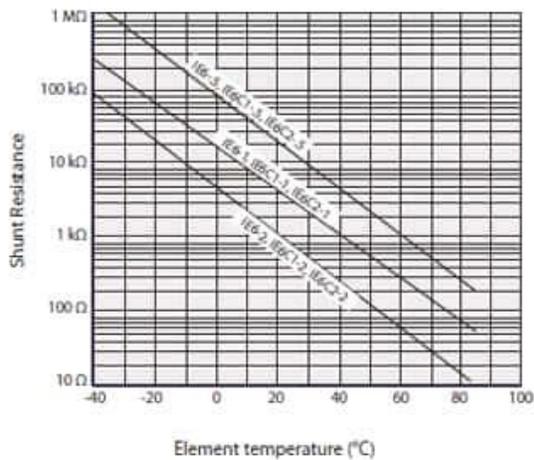
Responsivity @ 2300nm A/W Min/Typ	0.9/1.3	0.9/1.3	0.9/1.3
Dark Current @ 0.5V nA Max/Typ	.2/5	.8/4	4/50
Capacitance @ 0V pF	60	200	800
Shunt Resistance @ 10mV Kohms	400	60	20
D*(cm.Hz <sup>1/2</sup> /W)	2x10 <sup>11</sup>	2x10 <sup>11</sup>	2x10 <sup>11</sup>
NEP (W/Hz <sup>1/2</sup> )	3x10 <sup>-13</sup>	5x10 <sup>-13</sup>	9x10 <sup>-13</sup>
Spectral Range Microns	1.2-2.55	1.2-2.55	1.2-2.55
Cut-Off Frequency @0V -3dB(MHz)	50	15	5
Test Temperature °C	-20	-20	-20
Storage Temperature °C	-40 to 125	-40 to 125	-40 to 125
Package Options *(Note)	5-7-6-8	5-7-6-8	5-7-6-8

NOTE: \* 4 = TO46 Package, 5 = TO5 Package, 7 = TO37 Package 8 = TO8 Package  
Custom filters, windows and packages are available

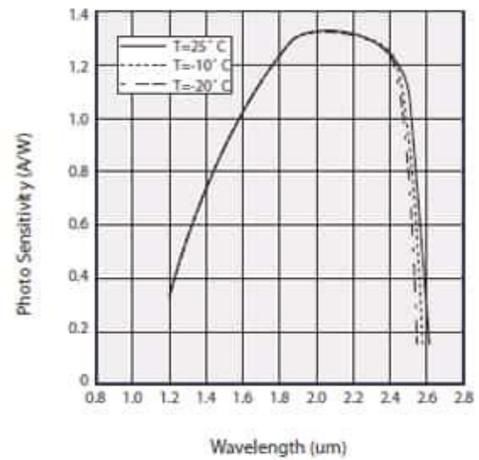


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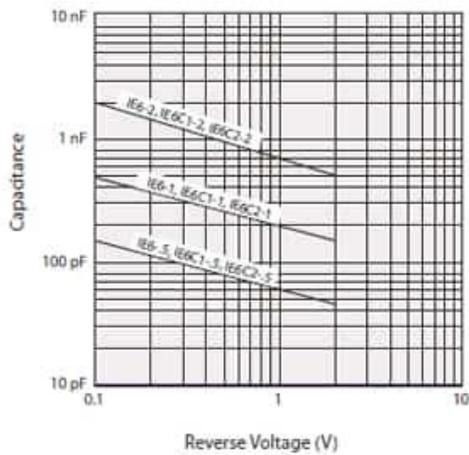
### Shunt Resistance vs. Element Temperature



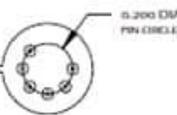
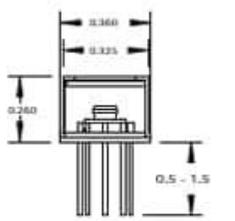
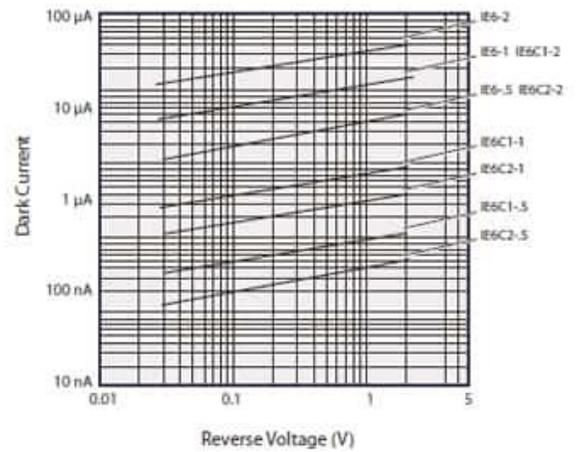
### Spectral Response



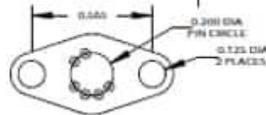
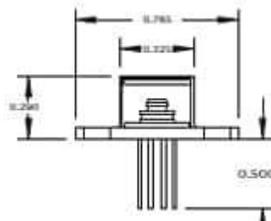
### Capacitance vs. Reverse Voltage



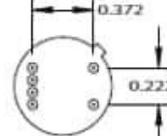
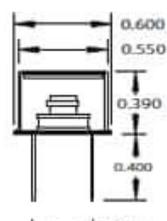
### Dark Current vs. Reverse Voltage



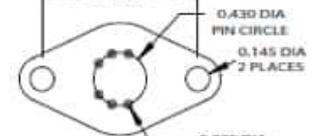
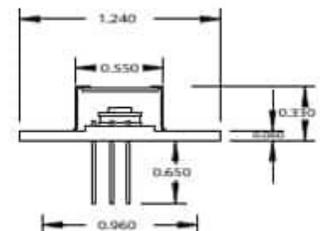
TO-5



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