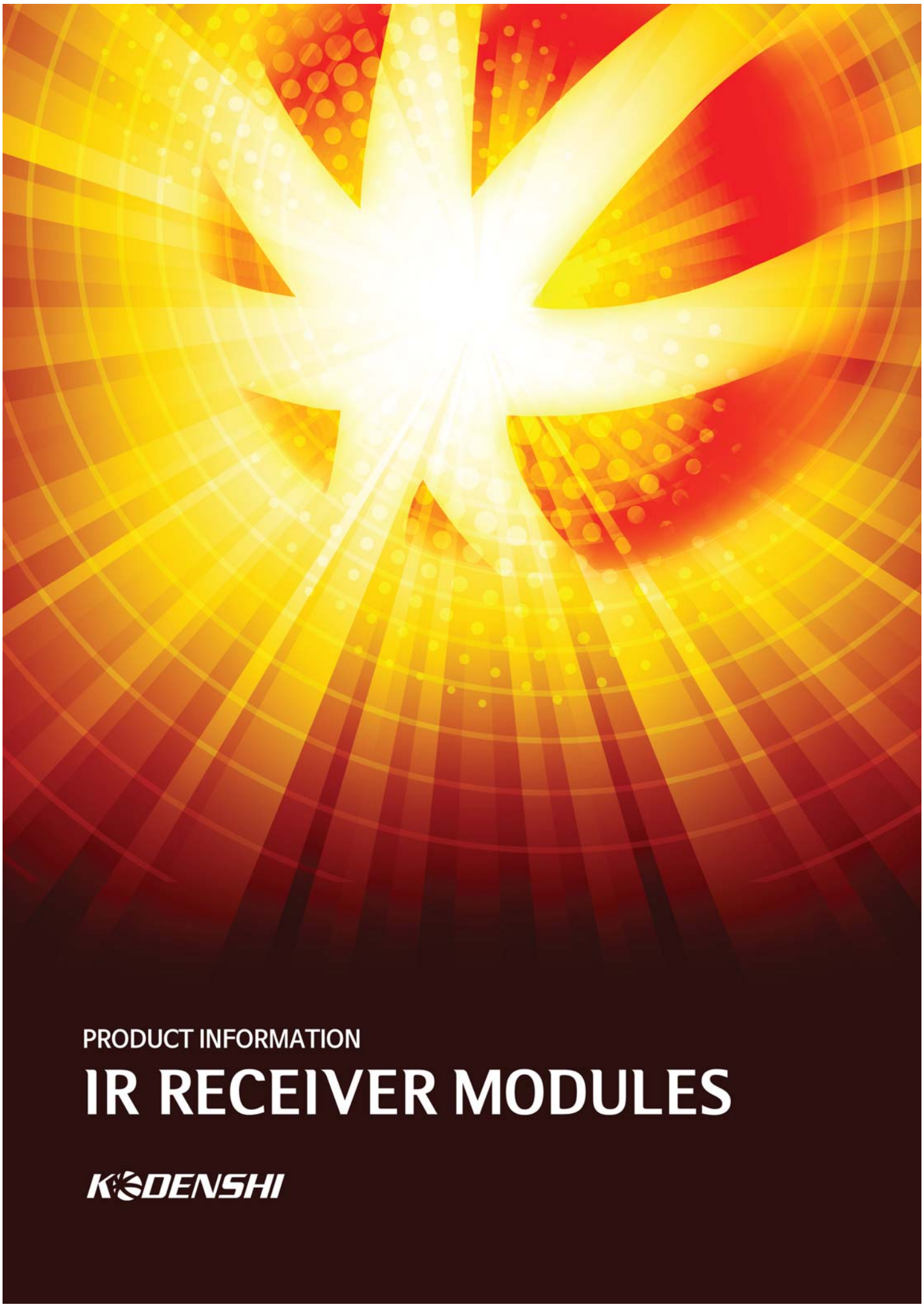
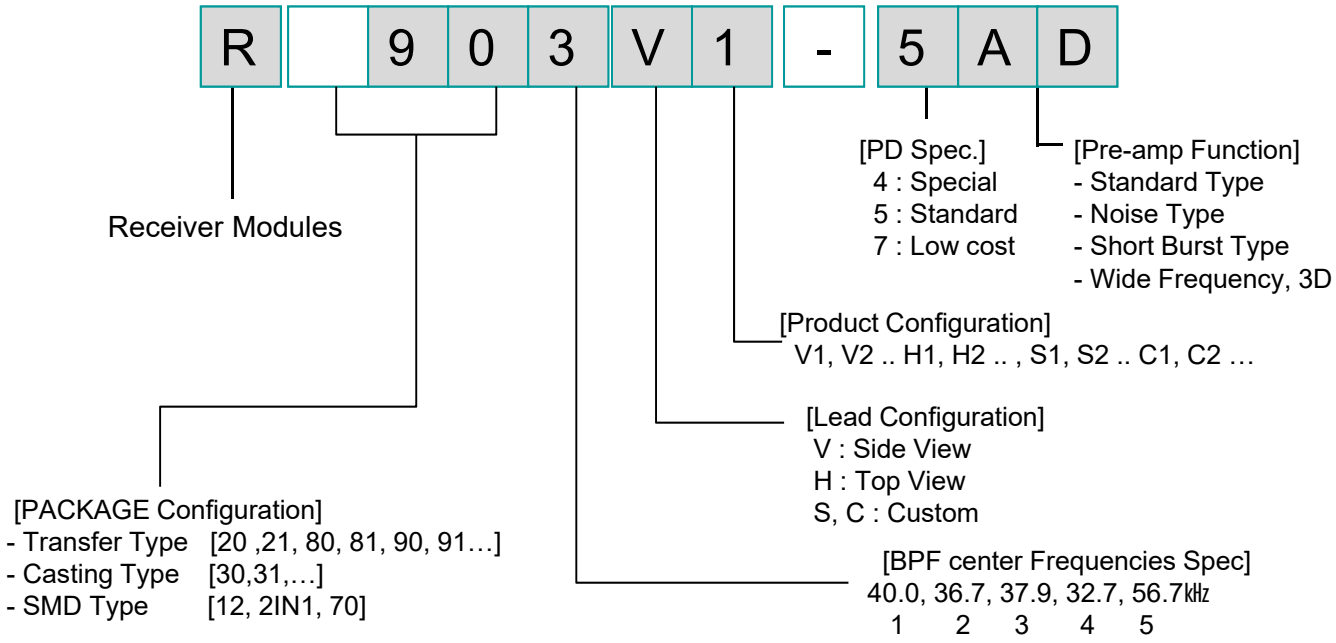


PRODUCT INFORMATION

IR RECEIVER MODULES

KODENSHI

■ Parts Number Designation



■ IR Receiver Products Line-up & Features

KODENSHI Product	Main Features	Supply Voltage
R□□□□-AD Series	Standard Type, Low current consumption	Free Voltage [2.7~5.5V]
R□□□□-T Series	Noise Type, Low current consumption, Against Vcc noise & light noise	
R□□□□-A Series	High sensitivity performance, Low current consumption	
R□□□□-S Series	Continuous data, Low current consumption	
R□□□□-C Series	Standard Type, Low current consumption	
R□□□□-G Series	Noise Type, Low current consumption	
R□□□□-K Series	Short Burst Compatible, Continuous data transmission, Against Vcc noise & light noise	
R□□□□-I Series	Short Burst Compatible, Continuous data transmission, High immunity noise suppression	
R□□□□-J Series	Carrier Output Type, Wide Frequency(20~60kHz), Immunity noise suppression 3D Vision System / Code Learning / IR Repeater Application	

■ IR Receiver Products Available Carrier Frequency

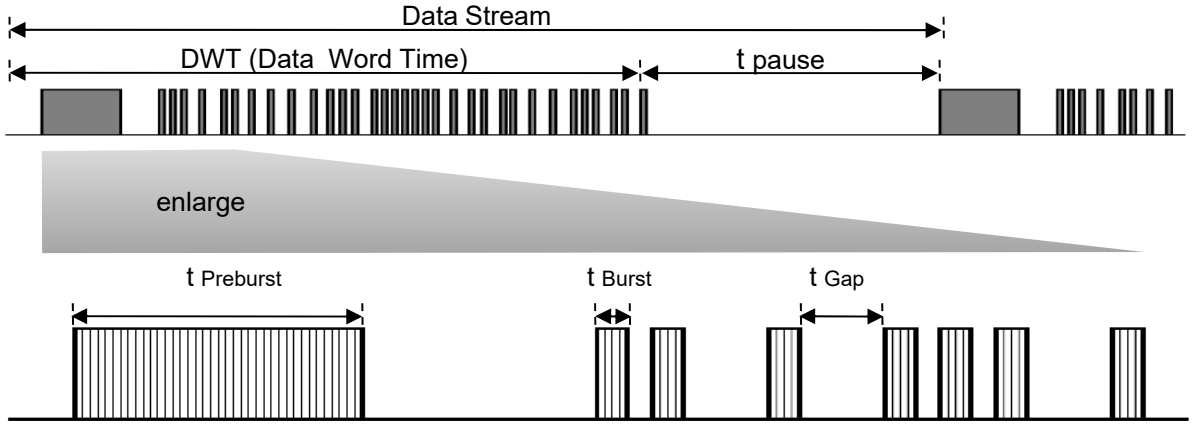
KODENSHI Product	Center Frequency (fc_kHz)				
	32.7kHz	36.7kHz	37.9kHz	40.0kHz	56.7kHz
R□□□□-AD Series	×	○	○	○	×
R□□□□-T Series	×	○	○	○	×
R□□□□-A Series	×	○	○	○	○
R□□□□-S Series	×	○	○	○	×
R□□□□-C Series	○	○	○	○	○
R□□□□-G Series	○	○	○	○	○
R□□□□-K Series	×	○	○	○	○
R□□□□-I Series	○	○	○	○	○

■ IR Receiver Products Data Signal Limitation

KODENSHI Product	Function	Data Word Length	Minimum Burst Length	Minimum Gap Length	Minimum Pause Length
R□□□□-AD Series	Standard Type	Max. 100㎳	Min. 300㎲	Min. 400㎲	Min. 25㎳
R□□□□-T Series	Noise Type	Max. 100㎳	Min. 350㎲	Min. 450㎲	Min. 38㎳
R□□□□-A Series	High sensitivity	Max. 100㎳	Min. 420㎲	Min. 550㎲	Min. 30㎳
	* fc=56.7㎑	Max. 100㎳	Min. 300㎲	Min. 300㎲	Min. 25㎳
R□□□□-S Series	Continuous Data Compatible	* Unlimited	Min. 320㎲	Min. 420㎲	* Min. 1㎳
R□□□□-C Series	Standard Type	Max. 100㎳	Min. 300㎲	Min. 350㎲	Min. 25㎳
R□□□□-G Series	Noise Type	Max. 100㎳	Min. 300㎲	Min. 350㎲	Min. 40㎳

tPreburst & tBurst Condition							
*1 150~650㎲				*2 grater than 650㎲~Max. 10㎳			
KODENSHI Product	Function	Data Word Length		tPause		tBurst	tGap
R□□□□-I Series	Short Burst Type	*1	*2	*1	*2	Min. 150㎲	Min. 350㎲
		Unlimited	Max. 100㎳	Min. 1㎳	Min. 40㎳		
R□□□□-J Series	IR Repeater	*1	*2	*1	*2	Min. 150㎲	Min. 350㎲
		Unlimited	Max. 100㎳	Min. 1㎳	Min. 30㎳		
	3D Sync. Application	*1	*2	*1	*2	Min. 150㎲	Min. 350㎲
		Unlimited	Max. 100㎳	Min. 1㎳	Min. 60㎳		

tPreburst & tBurst Condition							
*1 150~1200㎲				*2 grater than 1200㎲~Max. 10㎳			
KODENSHI Product	Function	Data Word Length		tPause		tBurst	tGap
R□□□□-K Series	Short Burst Type	*1	*2	*1	*2	Min. 150㎲	Min. 350㎲
		Unlimited	Max. 100㎳	Min. 1㎳	Min. 40㎳		



■ Suitable Data Format

Code Type	AD	T	A	S	C	G	K	I
NEC	+	+	+	+	+	+	+	+
RC-5	+	+	+	+	+	+	+	+
RC-6	+	-	-	-	+	+	+	+
Toshiba Micom Code	+	+	+	+	+	+	+	+
Sharp Code	+	-	-	+	+	+	+	+
Sony 12-Bit Code	+	-	-	+	+	-	+	-
Sony 15-Bit Code	-	-	-	+	-	-	+	-
Sony 20-Bit Code	-	-	-	+	-	-	+	-
RCMM Code	-	-	-	-	-	-	+	+
Matsushita Code	+	-	-	+	+	+	+	+
Mitsubishi Code	-	-	-	+	-	-	+	+
Zenith Code	+	-	-	+	+	+	+	+
JVC Code	+	-	-	+	+	-	+	+

■ Electro-optical Characteristics

KODENSHI Product	Supply Voltage Range [V]		Current Consumption [㎃]				Peak Wavelength [㎚]	High Level Output Voltage [V]		Low Level Output Voltage [V]		High Level Output Pulse Width [㎲]		Low Level Output Pulse Width [㎲]	
			V_{cc}=3V		V_{cc}=5V							Burst Wave = 600㎲		Period = 1.2㎳	
	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Typ.	Max.	Min.	Max.	Min.	Max.
R□□□□-AD Series	2.7	5.5	0.40	0.80	0.45	0.80	940	Vcc-0.5	Vcc-0.3	0.2	0.5	400	800	400	800
R□□□□-T Series	2.7	5.5	0.40	0.80	0.45	0.80	940	Vcc-0.5	Vcc-0.3	0.2	0.5	400	800	400	800
R□□□□-A Series	2.7	5.5	0.30	0.60	0.35	0.80	940	Vcc-0.5	Vcc-0.3	0.2	0.5	400	800	400	800
R□□□□-S Series	2.7	5.5	0.40	0.70	0.45	0.70	940	Vcc-0.5	Vcc-0.3	0.2	0.5	400	800	400	800
R□□□□-C Series	2.7	5.5	0.45	0.70	0.50	0.70	940	Vcc-0.5	Vcc-0.3	0.2	0.5	400	800	400	800
R□□□□-G Series	2.7	5.5	0.40	0.70	0.53	0.70	940	Vcc-0.5	Vcc-0.3	0.2	0.5	400	800	400	800
R□□□□-K Series	2.7	5.5	0.45	0.80	0.55	0.80	940	Vcc-0.5	Vcc-0.3	0.2	0.5	450	750	450	750
R□□□□-I Series	2.7	5.5	0.50	0.80	0.60	0.80	940	Vcc-0.5	Vcc-0.3	0.2	0.5	450	750	450	750

KODENSHI Product	Supply Voltage Range [V]		Current Consumption [㎃]				Peak Wave length [㎚]	High Level Output Voltage [V]		Low Level Output Voltage [V]		High Level Output Pulse Width [㎲]			Low Level Output Pulse Width [㎲]			Pulse Delay [㎲]
			V_{cc}=3V		V_{cc}=5V							fc=25kHz, Burst=10pluses						
	Min.	Max.	Typ.	Max.	Typ.	Max.	Typ.	Min.	Typ.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
R□□□□-J Series	2.7	5.5	0.36	0.60	0.43	0.60	940	Vcc-0.5	Vcc-0.3	0.2	0.5	23	-	37	3	-	17	25

■ Description

◆ The Series consist of a PIN Photodiode of high speed and a preamplifier IC in the package as an receiver for Infrared remote control systems.

■ Features

◆ Standard type
◆ High immunity against ambient light
◆ 2.7 ~ 5.5 Volt supply voltage, low power consumption
◆ Shielded against electrical field disturbance
◆ Easy interface with the main board
◆ TTL and CMOS compatibility
◆ RoHS Compliance

■ Applications

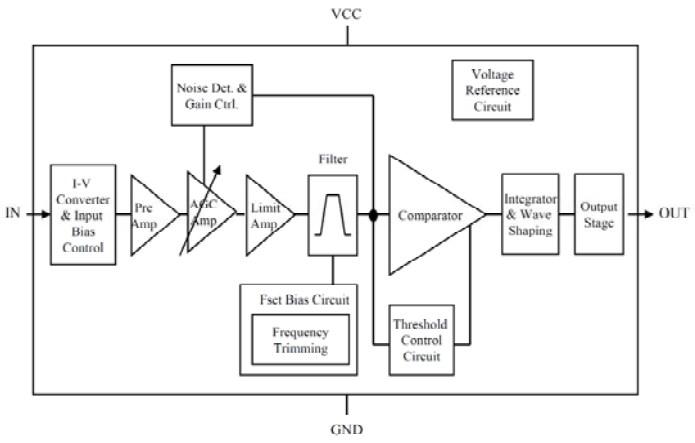
◆ TV, VTR, Audio, Air Conditioners, Car Stereo Units, Computers, Interior controlling appliances, and appliances that require remote controlling

■ Electro-optical Characteristics

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
Supply Voltage Range	V_{cc}			2.7	-	5.5	V
Current Consumption	I_{cc}	No Input Signal	V_{cc}=5V	0.2	0.45	0.80	mA
			V_{cc}=3V		0.40		
Peak Wavelength	λ_p			-	940	-	nm
B.P.F Center Frequency	f_o			-	*1	-	kHz
Transmission Distance *3	L	250Lux	0 °	40	-	-	m
			±30 °	32	-	-	m
High Level Output Voltage *3	V_{OH}	30cm over the ray axis		Vcc-0.5	Vcc-0.3	-	V
Low Level Output Voltage *3	V_{OL}			-	0.2	0.5	V
High Level Output Pulse Width *3	T_{WH}	Burst Wave = 600㎲		400	-	800	㎲
Low Level Output Pulse Width *3	T_{WL}	Period = 1.2㎳		400	-	800	㎲
Output Form	Active Low Output						

*1 B.P.F Center Frequency(fo) of each model is shown below : 36.0 & 36.7 / 37.9 / 40.0 ㎑

■ Block Diagram



■ Description

◆ The Series consist of a PIN Photodiode of high speed and a preamplifier IC in the package as an receiver for Infrared remote control systems.

■ Features

◆ 3D & Wifi Noise immunity
◆ Maximum interference safety against optical and electrical
◆ 2.7 ~ 5.5 Volt supply voltage, low power consumption
◆ Shielded against electrical field disturbance
◆ Easy interface with the main board
◆ TTL and CMOS compatibility
◆ RoHS Compliance

■ Applications

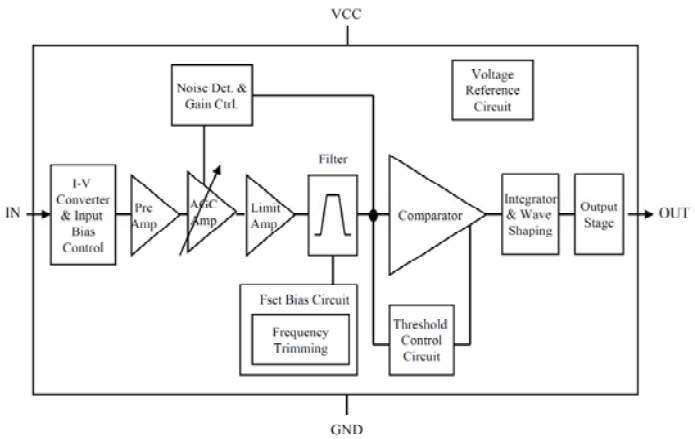
◆ TV, VTR, Audio, Air Conditioners, Car Stereo Units, Computers, Interior controlling appliances, and appliances that require remote controlling

■ Electro-optical Characteristics

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
Supply Voltage Range	V_{cc}			2.7	-	5.5	V
Current Consumption	I_{cc}	No Input Signal	V_{cc}=5V	0.2	0.45	0.80	mA
			V_{cc}=3V		0.40		
Peak Wavelength	λ_p			-	940	-	nm
B.P.F Center Frequency	f_o			-	*1	-	kHz
Transmission Distance *3	L	250Lux	0 °	40	-	-	m
			±30 °	32	-	-	m
High Level Output Voltage *3	V_{OH}	30cm over the ray axis		Vcc-0.5	Vcc-0.3	-	V
Low Level Output Voltage *3	V_{OL}			-	0.2	0.5	V
High Level Output Pulse Width *3	T_{WH}	Burst Wave = 600㎲		400	-	800	㎲
Low Level Output Pulse Width *3	T_{WL}	Period = 1.2㎳		400	-	800	㎲
Output Form	Active Low Output						

*1 B.P.F Center Frequency(fo) of each model is shown below : 36.0 & 36.7 / 37.9 / 40.0 ㎑

■ Block Diagram



■ Description

◆ The Series consist of a PIN Photodiode of high speed and a preamplifier IC in the package as an receiver for Infrared remote control systems.

■ Features

◆ High sensitivity performance
◆ Maximum interference safety against optical and electrical
◆ 2.7 ~ 5.5 Volt supply voltage, low power consumption
◆ Shielded against electrical field disturbance
◆ Easy interface with the main board
◆ TTL and CMOS compatibility
◆ RoHS Compliance

■ Applications

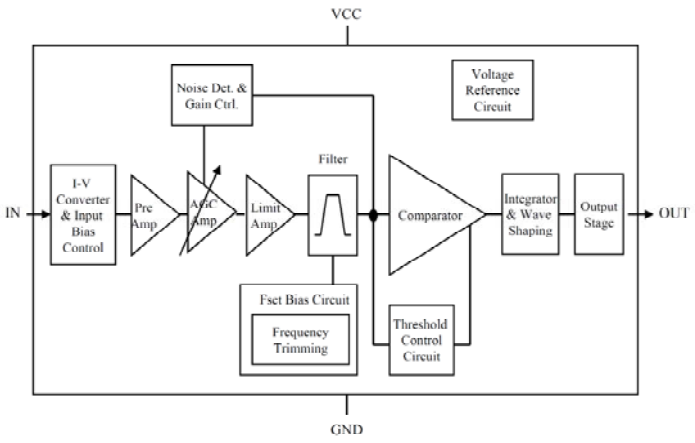
◆ TV, VTR, Audio, Air Conditioners, Car Stereo Units, Computers, Interior controlling appliances, and appliances that require remote controlling

■ Electro-optical Characteristics

Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
Supply Voltage Range	V_{cc}			2.7	-	5.5	V
Current Consumption	I_{cc}	No Input Signal	V_{cc}=5V	0.2	0.35	0.80	mA
			V_{cc}=3V		0.30		
Peak Wavelength	λ_p			-	940	-	nm
B.P.F Center Frequency	f_o			-	*1	-	kHz
Transmission Distance *3	L	250Lux	0 °	40	-	-	m
			±30 °	32	-	-	m
High Level Output Voltage *3	V_{OH}	30cm over the ray axis		Vcc-0.5	Vcc-0.3	-	V
Low Level Output Voltage *3	V_{OL}			-	0.2	0.5	V
High Level Output Pulse Width *3	T_{WH}	Burst Wave = 600μs		400	-	800	μs
Low Level Output Pulse Width *3	T_{WL}	Period = 1.2ms		400	-	800	μs
Output Form	Active Low Output						

*1 B.P.F Center Frequency(fo) of each model is shown below : 36.0 & 36.7 / 37.9 / 40.0 / 56.7 kHz

■ Block Diagram



■ Description

◆ The Series consist of a PIN Photodiode of high speed and a preamplifier IC in the package as an receiver for Infrared remote control systems.

■ Features

◆ Data Stream receiver, Sensor Application
◆ Almost CODE compatible
◆ 2.7 ~ 5.5 Volt supply voltage, low power consumption
◆ Shielded against electrical field disturbance
◆ Easy interface with the main board
◆ TTL and CMOS compatibility
◆ RoHS Compliance

■ Applications

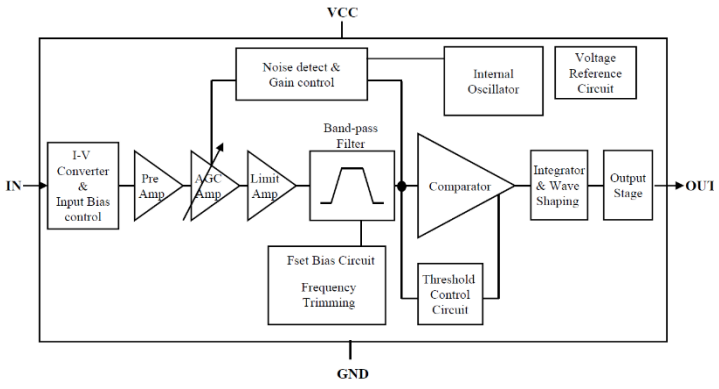
◆ TV, VTR, Audio, Air Conditioners, Car Stereo Units, Computers, Interior controlling appliances, and appliances that require remote controlling

■ Electro-optical Characteristics

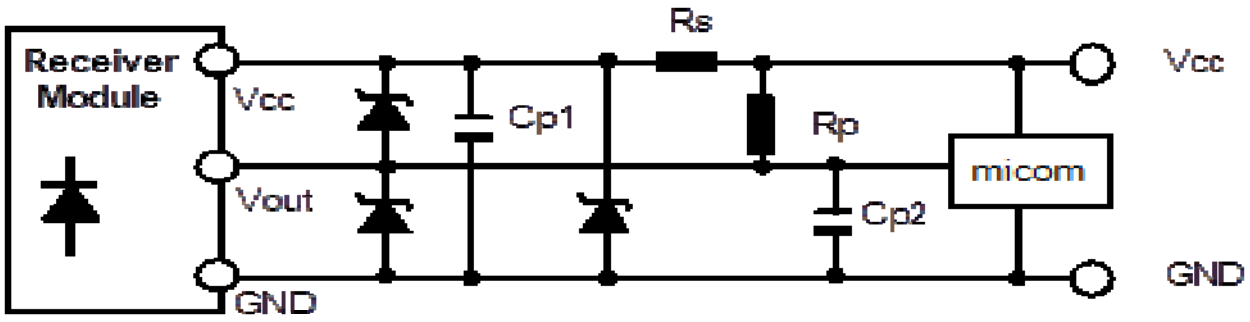
Parameter	Symbol	Conditions		Min.	Typ.	Max.	Unit
Supply Voltage Range	V_{cc}			2.7	-	5.5	V
Current Consumption	I_{cc}	No Input Signal	V_{cc}=5V	0.2	0.55	0.80	mA
			V_{cc}=3V		0.45		
Peak Wavelength	λ_p			-	940	-	nm
B.P.F Center Frequency	f_o			-	*1	-	kHz
Transmission Distance *3	L	250Lux	0 °	40	-	-	m
			±30 °	32	-	-	m
High Level Output Voltage *3	V_{OH}	30cm over the ray axis		Vcc-0.5	Vcc-0.3	-	V
Low Level Output Voltage *3	V_{OL}			-	0.2	0.5	V
High Level Output Pulse Width *3	T_{WH}	Burst Wave = 600㎲		400	-	800	㎲
Low Level Output Pulse Width *3	T_{WL}	Period = 1.2㎳		400	-	800	㎲
Output Form	Active Low Output						

*1 B.P.F Center Frequency(fo) of each model is shown below : 36.0 & 36.7 / 37.9 / 40.0 / 56.7 ㎑

■ Block Diagram

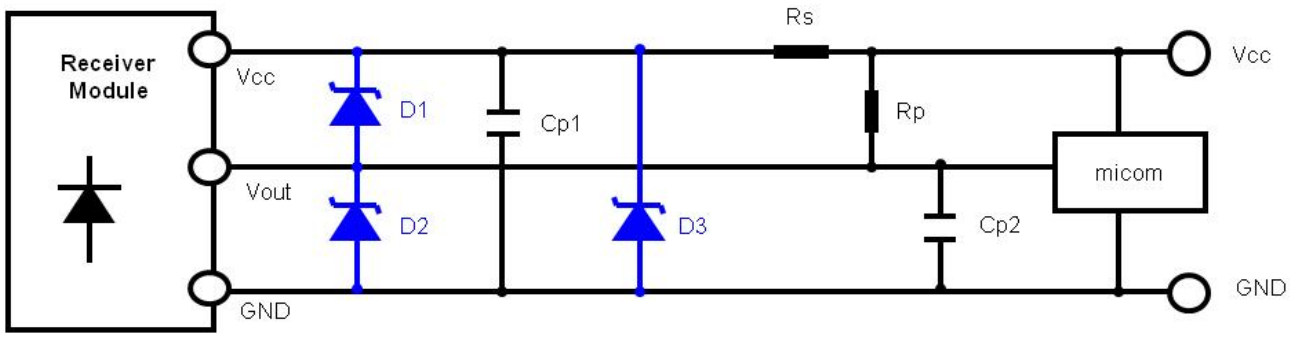


Line Noise Solution



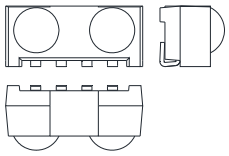
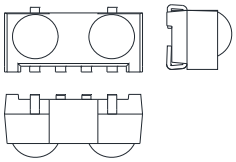
Component	Recommend
1) Rs (Vcc Input Series Resistance)	Typ. 100ohm (100 ohm ~ 470ohm)
2) Cp1 (Vcc-GND Parallel Condenser)	Typ. 100uF (47uF ~ 100uF)
3) Rp (Vcc-Vout Outer Pullup Resistance)	Optional (10K ohm or more)
4) Cp2 (Vout-GND Parallel Condenser)	Typ. 2nF (1nF ~ 10nF)

ESD Protection



Component	Recommend
1) Rs (Vcc Input Series Resistance)	Typ. 100ohm (100 ohm ~ 470ohm)
2) Cp1 (Vcc-GND Parallel Condenser)	Typ. 100uF (47uF ~ 100uF)
3) Rp (Vcc-Vout Outer Pullup Resistance)	Optional (10K ohm or more)
4) Cp2 (Vout-GND Parallel Condenser)	Typ. 2nF (1nF ~ 10nF)
5) D1~D3 (ESD Protection device)	Zener diode or TVS protection diode

■ R12 Series

R12□□-□□	R12□H6-□□
	
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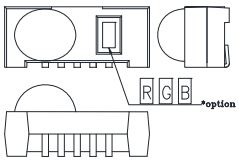
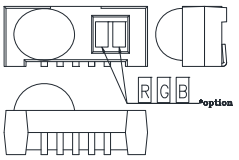
■ R2IN1(Rc-m + LED or 2LED)

R2IN1□□-□□	R2IN1□□-□□□
	
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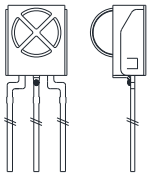
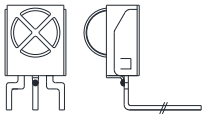
■ R2□□ Series

R2□□V1-□□	R2□□H1-□□
	
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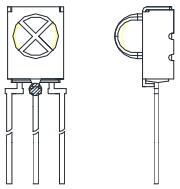
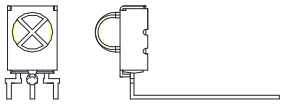
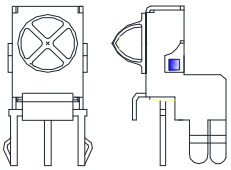
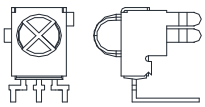
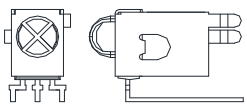
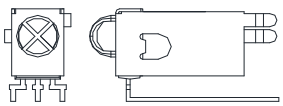
■ R21□□ Series

R21□□LM-□□	R21□□TM-□□	R21□□MS-□□
		
Page ----------15	Page ----------15	Page ----------16
R21□□TC-□□	**R21□□TH-□□**	**R21□□TE-□□**
		
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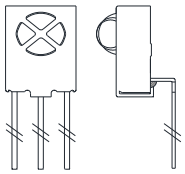
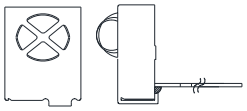
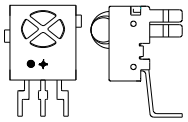
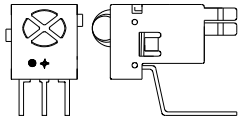
■ R3□□ Series

R3□□V1-□□	R3□□H1-□□	R3□□S1-□□	R3□□S2-□□
			
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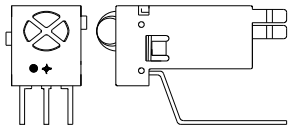
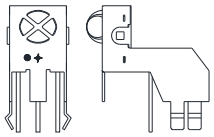
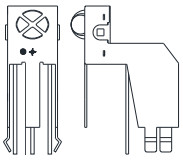
R3□□S3-□□	R3□□S4-□□	R3□□S5-□□
		
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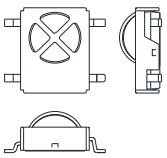
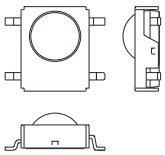
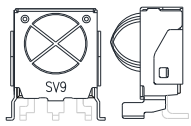
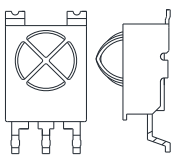
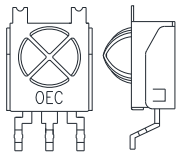
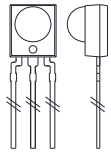
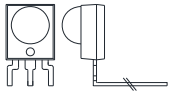
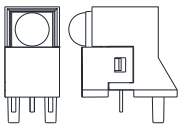
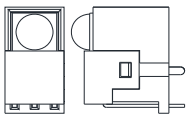
■ R7□□ Series

R7□□M-□□	R7□□NM-□□
	
Page ----------21	Page ----------22

■ R8□□ Series

R8□□SV9-□□	R8□□SH6-□□	R8□□SB6-□□
		
Page ----------22	Page ----------23	Page ----------23

■ R9□□ Series

R9□□V1-□□	R9□□H1-□□	R9□□T1-□□	R9□□T2-□□
			
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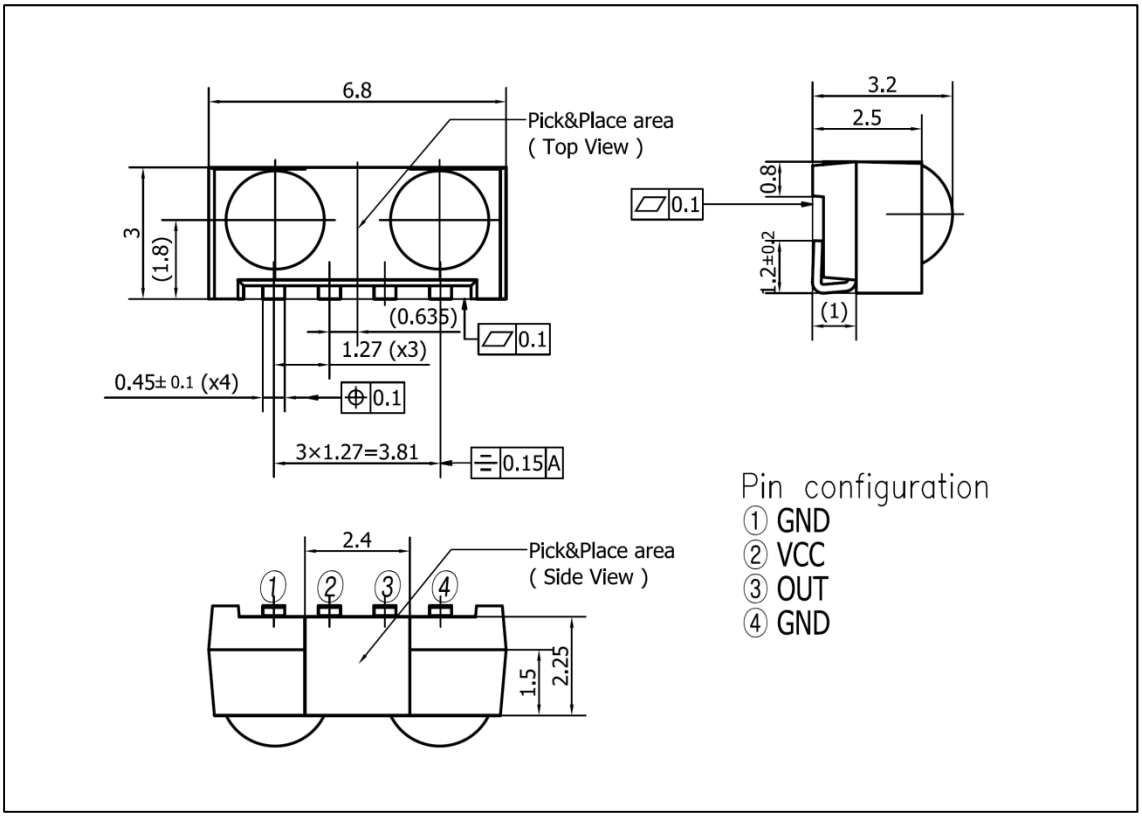
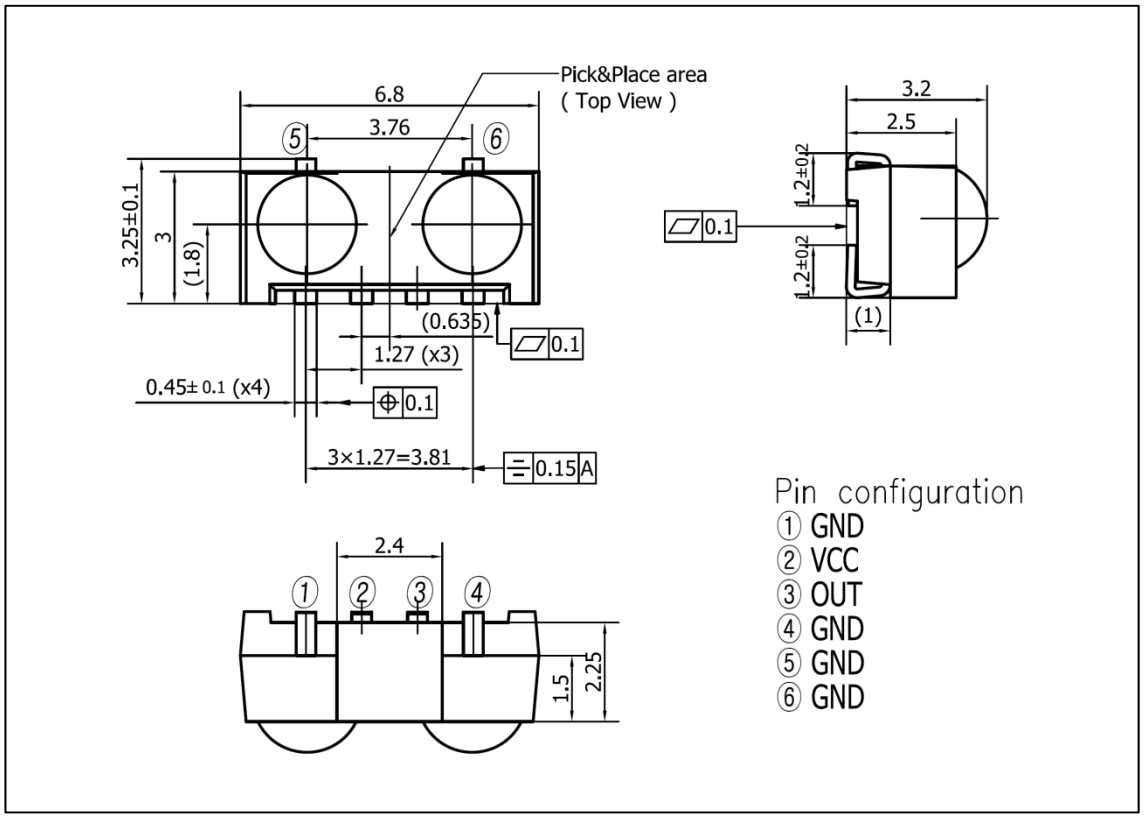
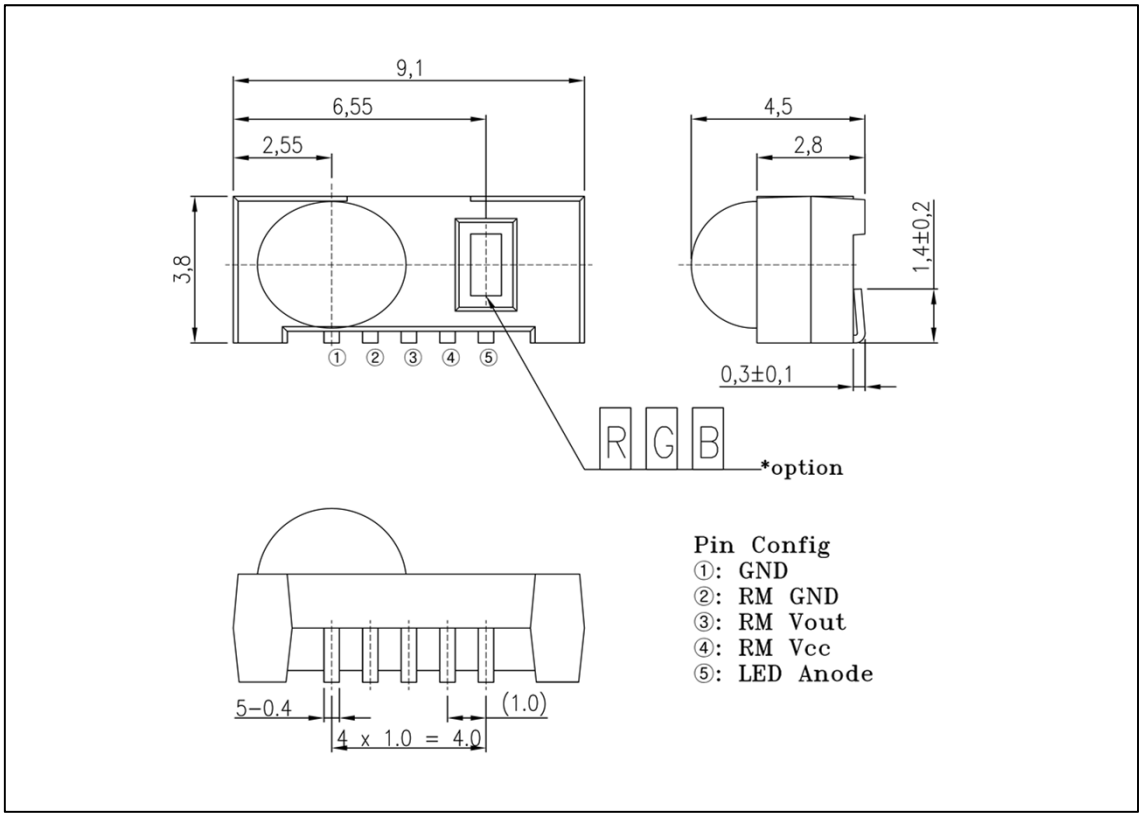
■ R12□□-□□


6.8
Pick&Place area
(Top View)
3
(1.8)
(0.635)
1.27 (x3)
0.1
0.45± 0.1 (x4)
0.1
3×1.27=3.81
0.15 A
3.2
2.5
0.8
0.1
1.2±0.2
(1)
2.4
Pick&Place area
(Side View)
1
2
3
4
1.5
2.25
Pin configuration
① GND
② VCC
③ OUT
④ GND

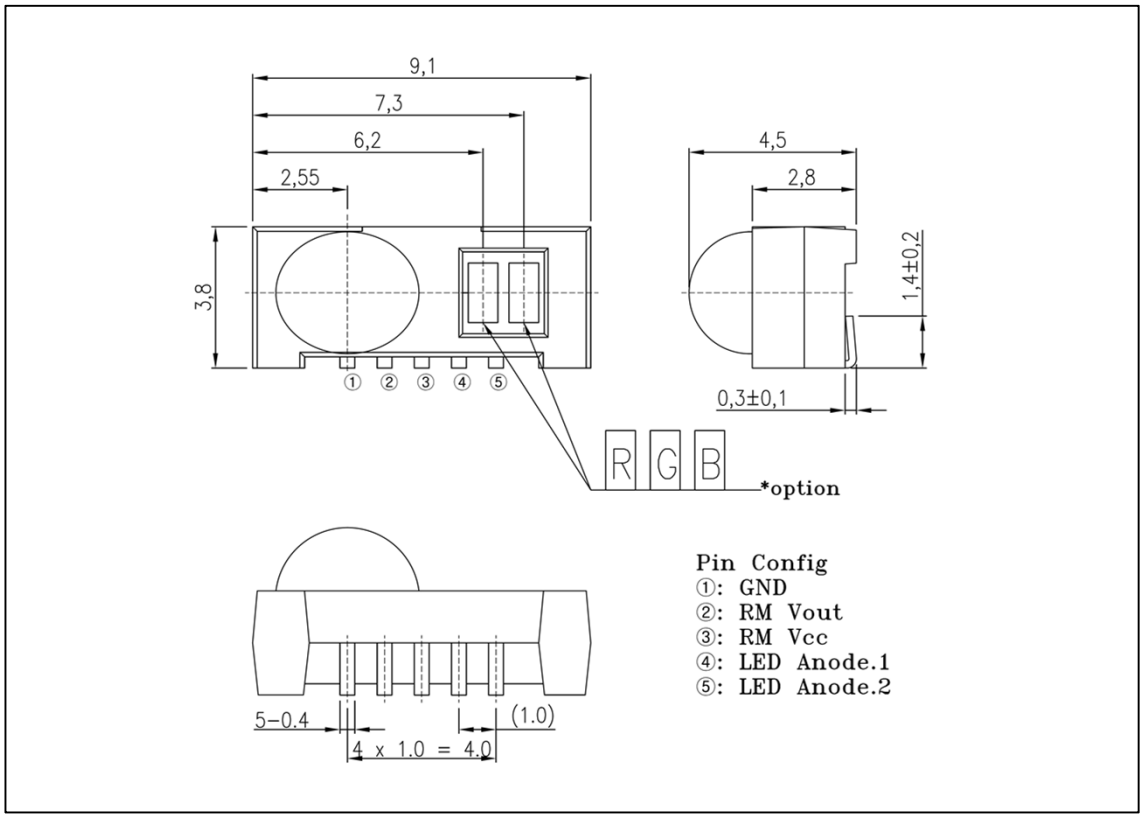
■ R12□H6-□□


Pick&Place area
(Top View)
6.8
3.76
5
6
3.25±0.1
3
(1.8)
(0.635)
1.27 (x3)
0.1
0.45± 0.1 (x4)
0.1
3×1.27=3.81
0.15 A
3.2
2.5
1.2±0.2
0.1
1.2±0.2
(1)
2.4
1
2
3
4
1.5
2.25
Pin configuration
① GND
② VCC
③ OUT
④ GND
⑤ GND
⑥ GND

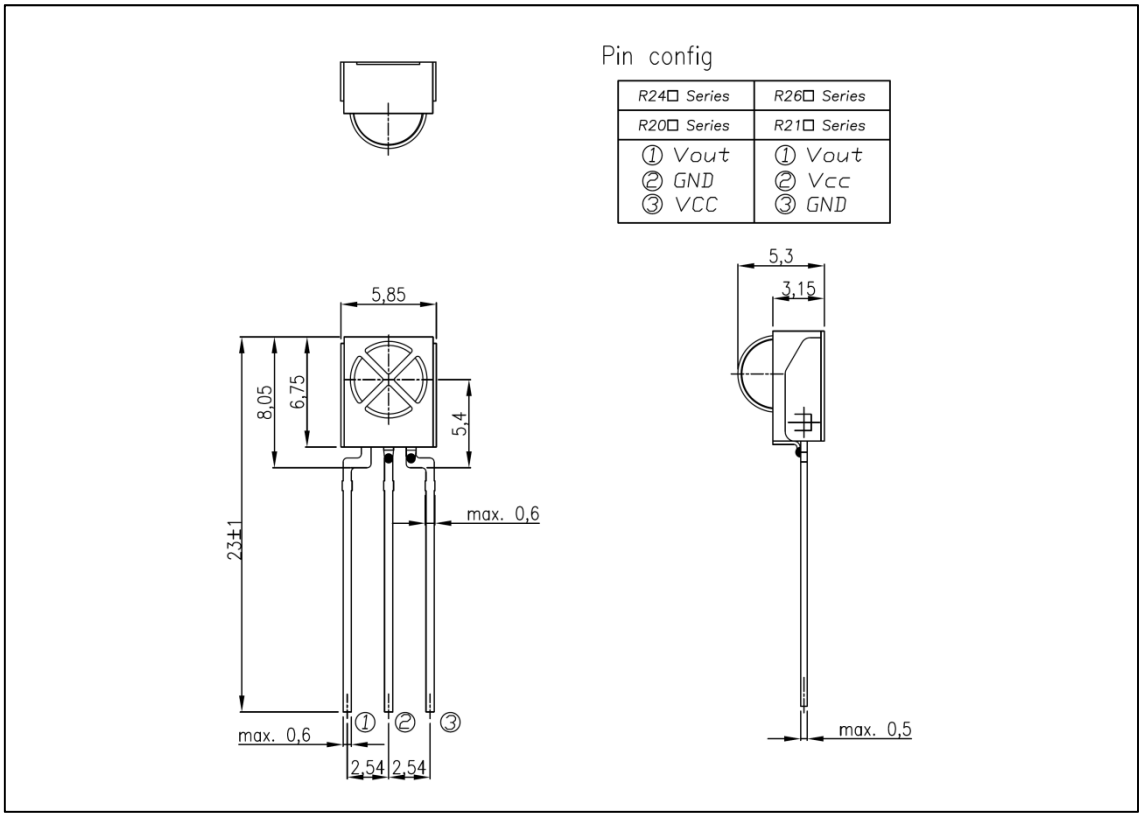
■ R2IN1□□-□□(Receiver Module + 1 LED)



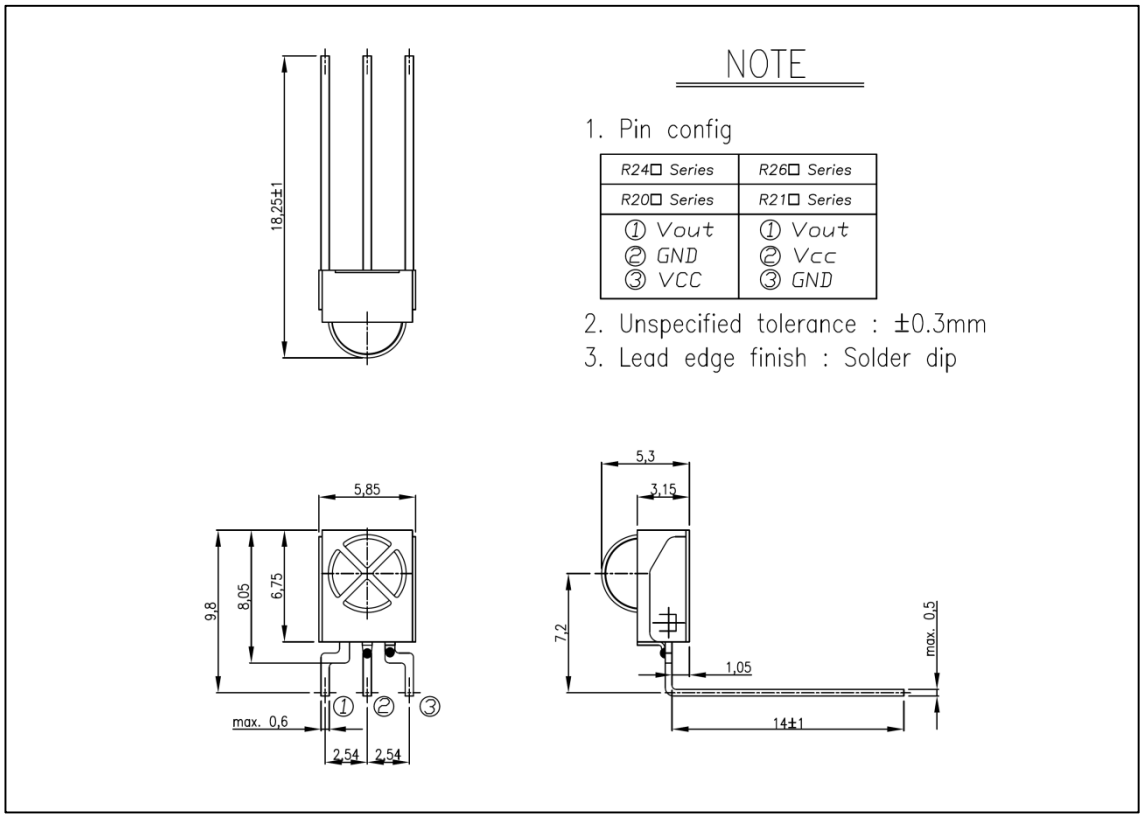
■ R2IN1□□-□□□(Receiver Module + 2 LED)



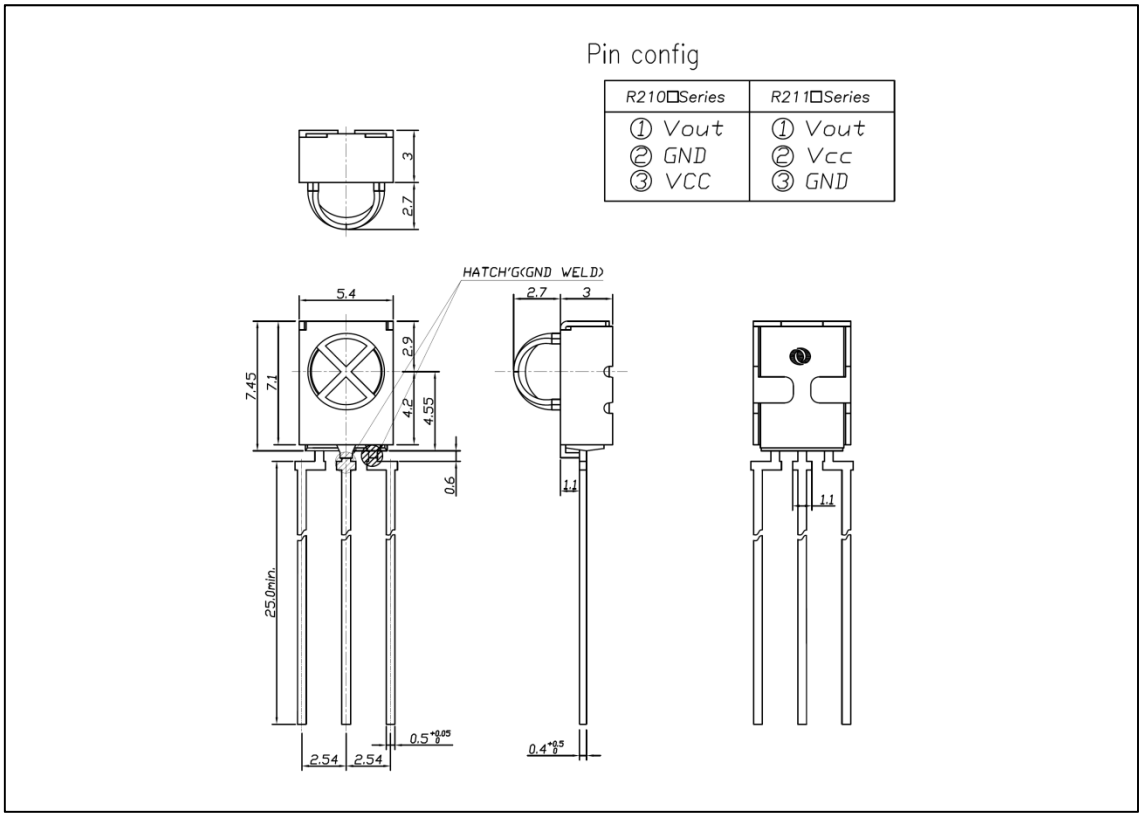
■ R2□□V1-□□


Pin config
R24□ Series
R26□ Series
R20□ Series
R21□ Series
① Vout
② GND
③ VCC
① Vout
② Vcc
③ GND
5,85
8,05
6,75
5,4
max. 0,6
23±1
max. 0,6
2,54
2,54
5,3
3,15
max. 0,5

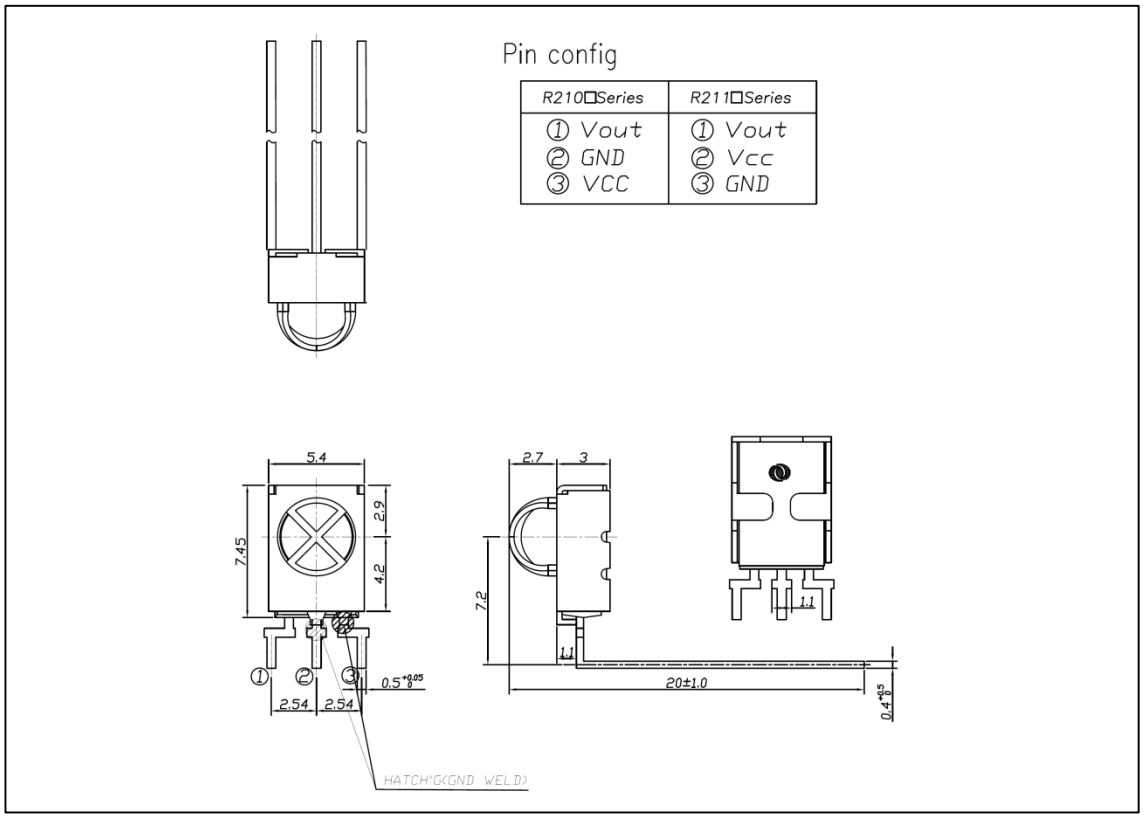
■ R2□□H1-□□


NOTE
1. Pin config
R24□ Series
R26□ Series
R20□ Series
R21□ Series
① Vout
② GND
③ VCC
① Vout
② Vcc
③ GND
2. Unspecified tolerance : ±0.3mm
3. Lead edge finish : Solder dip
18,25±1
5,85
9,8
8,05
6,75
max. 0,6
2,54
2,54
5,3
3,15
7,2
1,05
max. 0,5
14±1

■ R21□□LM-□□


Pin config
R210□Series
① Vout
② GND
③ VCC
R211□Series
① Vout
② Vcc
③ GND
HATCH'G(GND WELD)
5.4
2.7
3
2.9
7.45
7.1
4.2
4.55
0.6
1.1
25.0min.
2.54
2.54
0.5
0.4

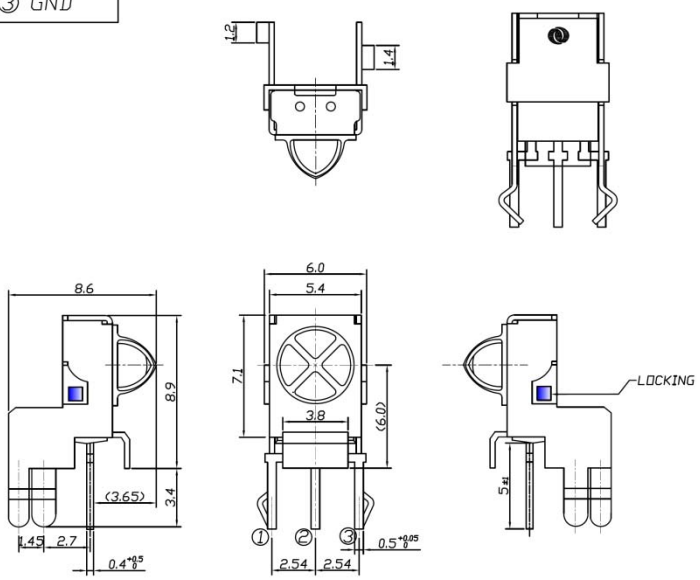
■ R21□□TM-□□


Pin config
R210□Series
① Vout
② GND
③ VCC
R211□Series
① Vout
② Vcc
③ GND
5.4
2.7
3
2.9
7.45
4.2
7.2
1.1
20±1.0
0.4
2.54
2.54
0.5
HATCH'G(GND WELD)

■ R21□□MS-□□

Pin config

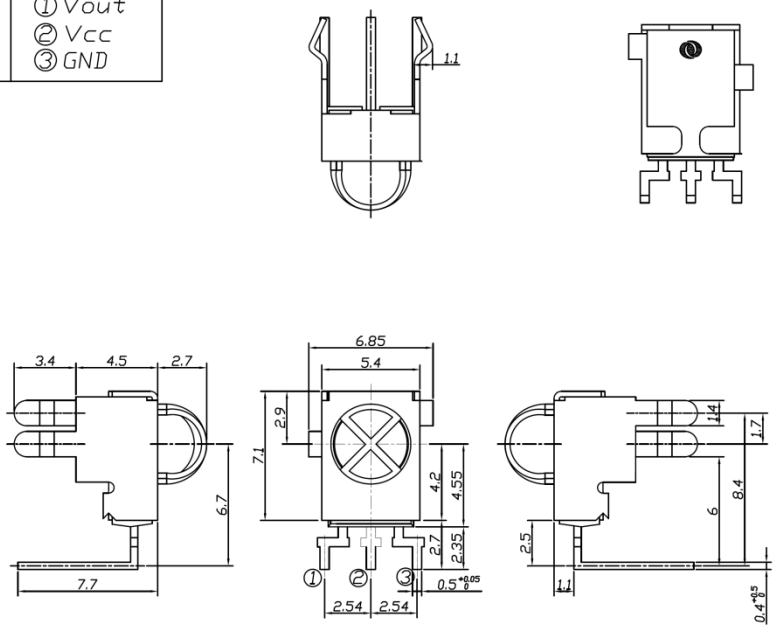
R210□Series	R211□Series
① Vout	① Vout
② GND	② Vcc
③ VCC	③ GND



■ R21□□TC-□□

Pin config

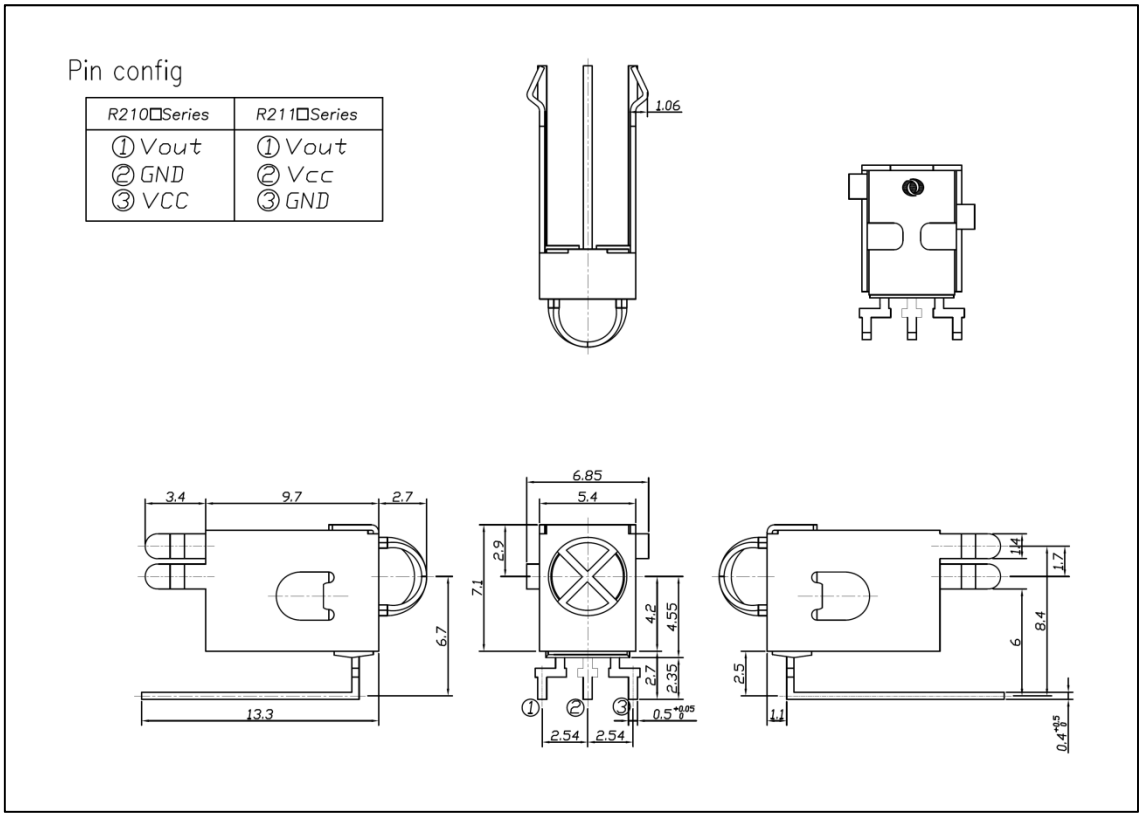
R210□Series	R211□Series
① Vout	① Vout
② GND	② Vcc
③ VCC	③ GND



■ R21□□TH-□□

Pin config

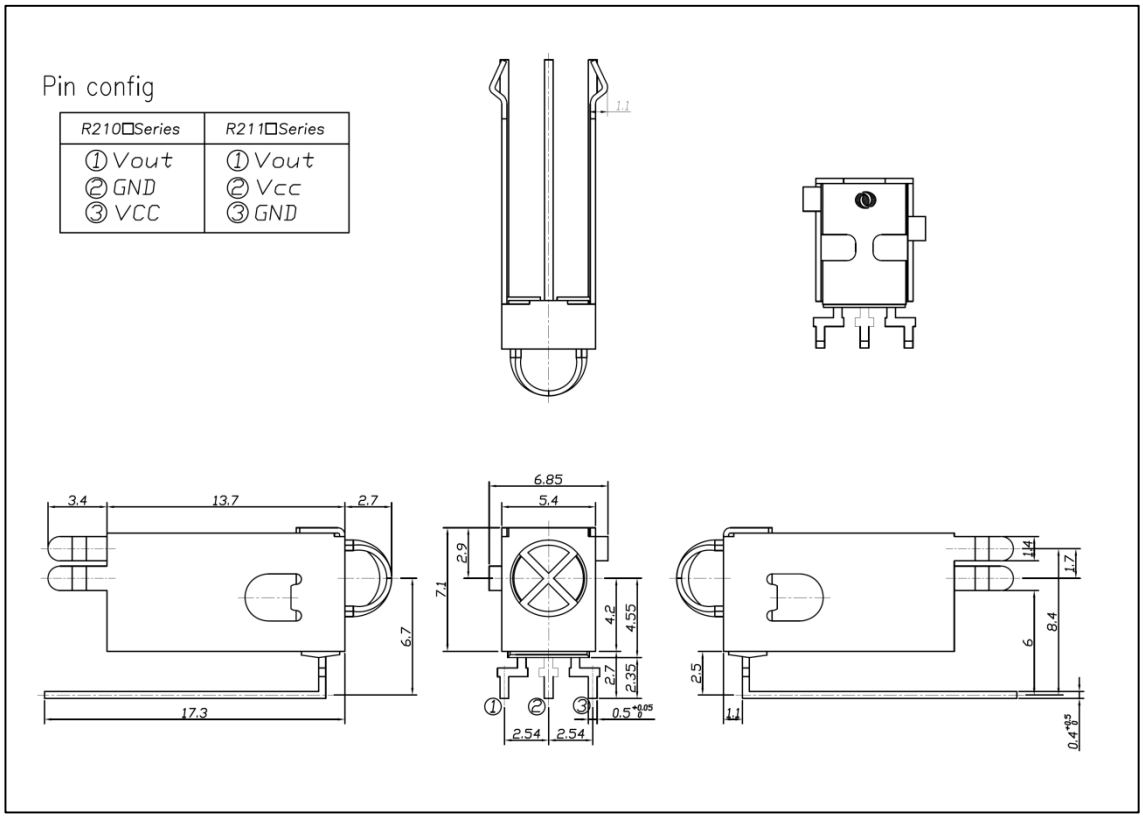
R210□Series	R211□Series
① Vout	① Vout
② GND	② Vcc
③ VCC	③ GND



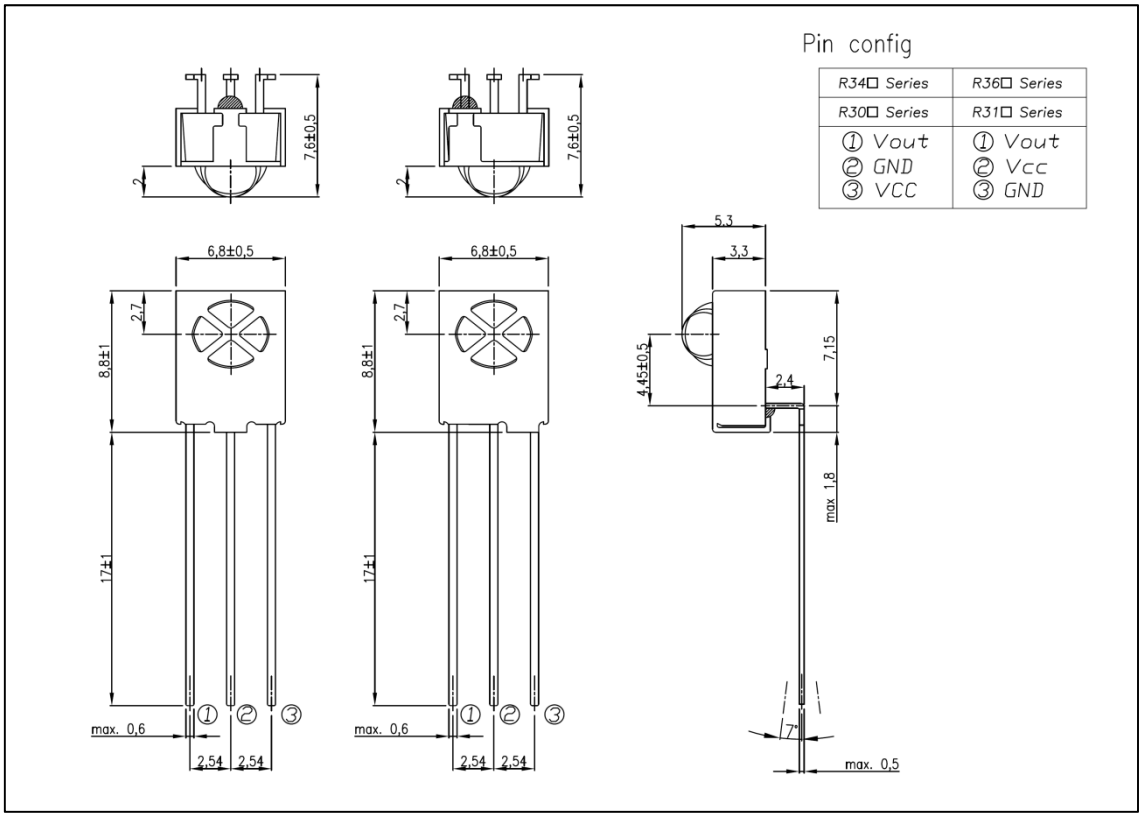
■ R21□□TE-□□

Pin config

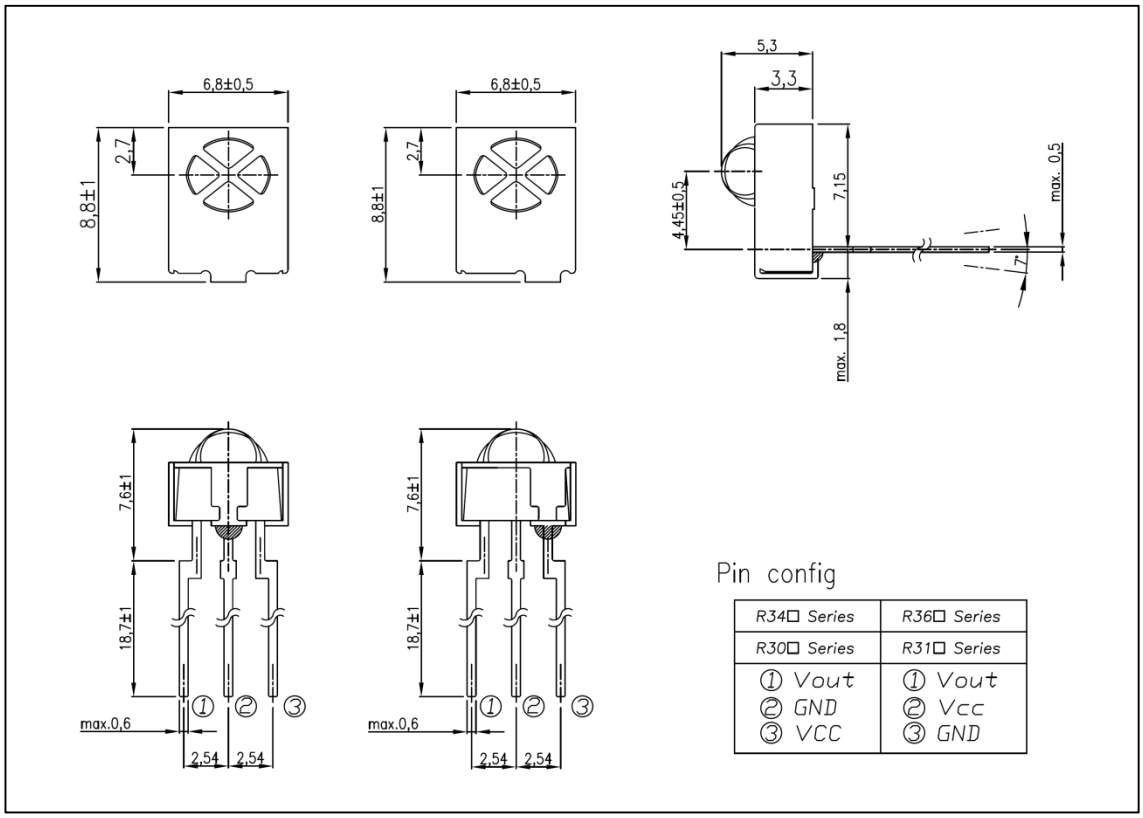
R210□Series	R211□Series
① Vout	① Vout
② GND	② Vcc
③ VCC	③ GND



■ R3□□V1-□□


Pin config
R34□ Series
R36□ Series
R30□ Series
R31□ Series
① Vout
② GND
③ VCC
① Vout
② Vcc
③ GND
7.6±0.5
6,8±0,5
2,7
8,8±1
17±1
max. 0,6
2,54
5,3
3,3
4,45±0,5
7,15
2,4
max. 1,8
7°
max. 0,5

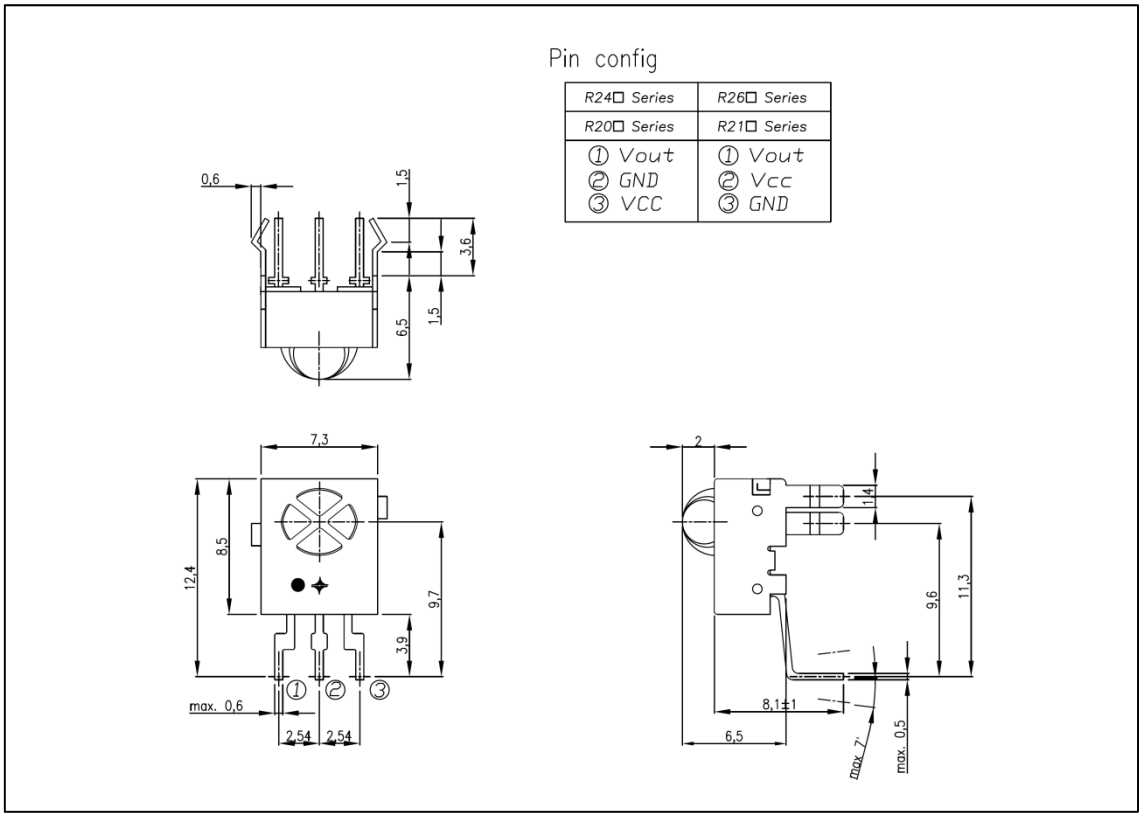
■ R3□□H1-□□


6,8±0,5
2,7
8,8±1
5,3
3,3
4,45±0,5
7,15
max. 0,5
max. 1,8
7°
7,6±1
18,7±1
max.0,6
2,54
Pin config
R34□ Series
R36□ Series
R30□ Series
R31□ Series
① Vout
② GND
③ VCC
① Vout
② Vcc
③ GND

■ R3□□S1-□□

Pin config

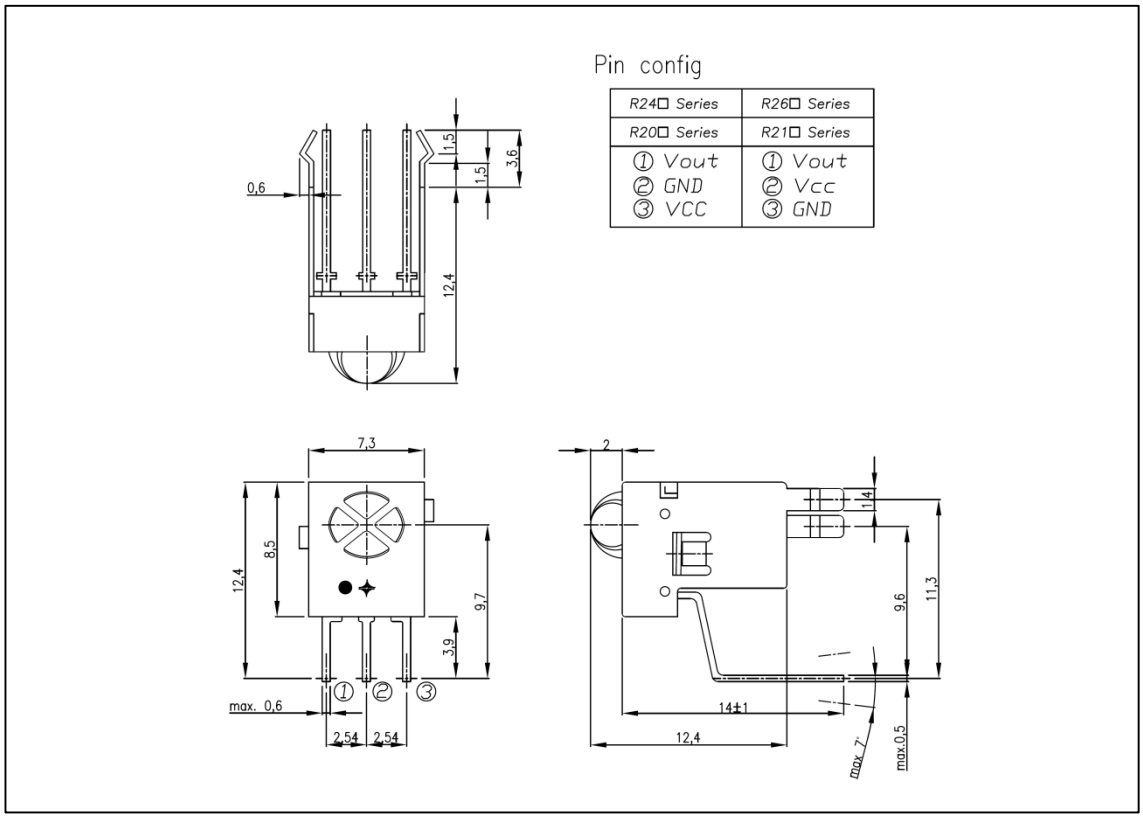
R24□ Series	R26□ Series
R20□ Series	R21□ Series
① Vout ② GND ③ VCC	① Vout ② Vcc ③ GND



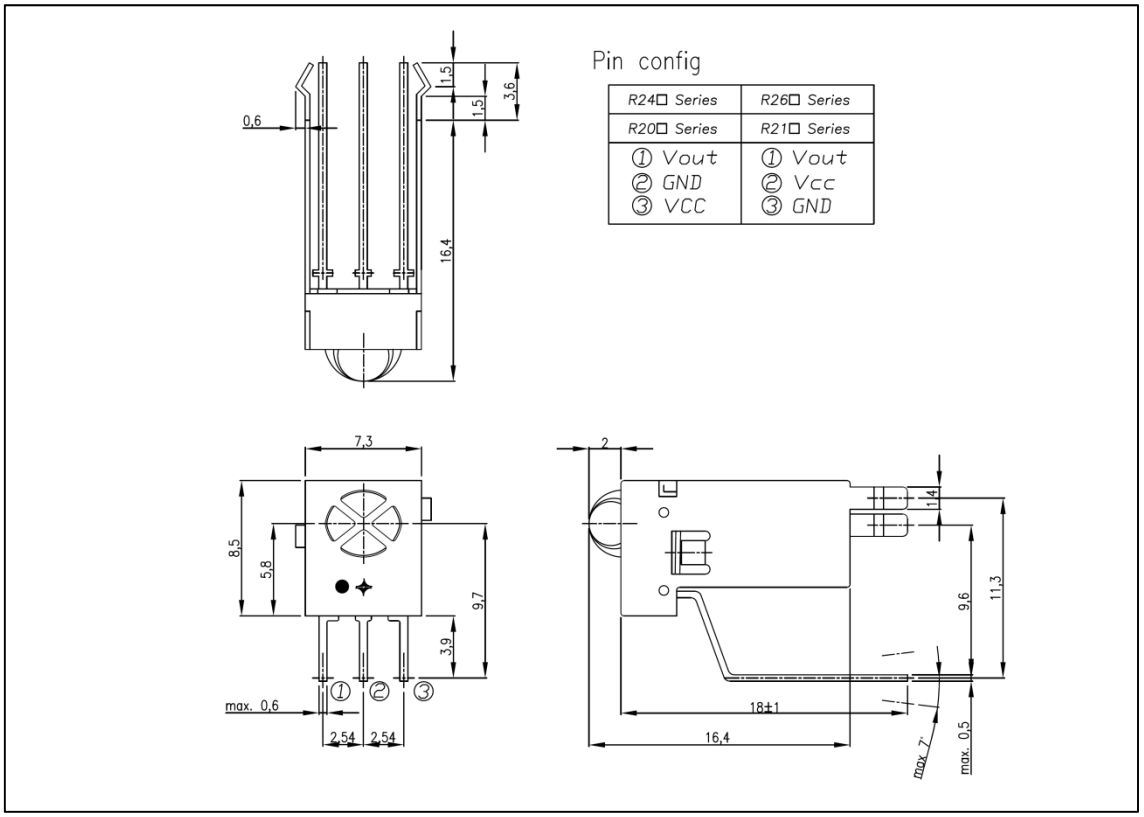
■ R3□□S2-□□

Pin config

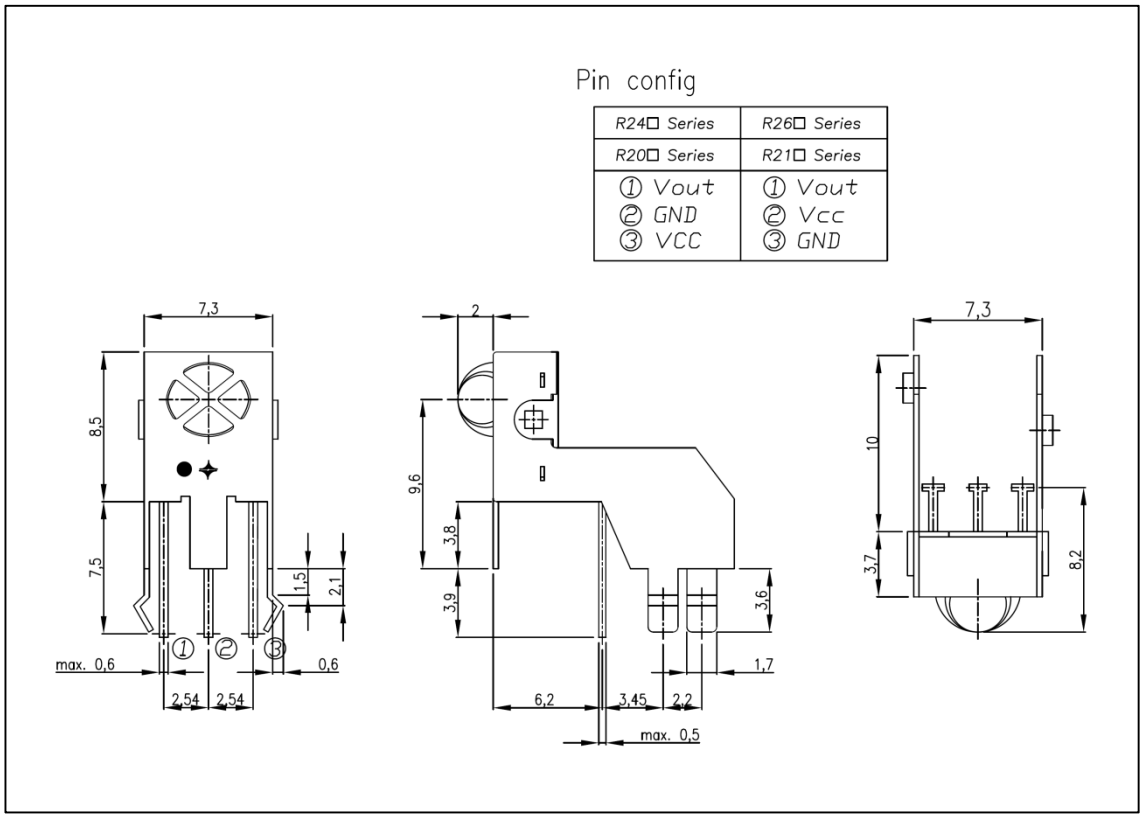
R24□ Series	R26□ Series
R20□ Series	R21□ Series
① Vout ② GND ③ VCC	① Vout ② Vcc ③ GND



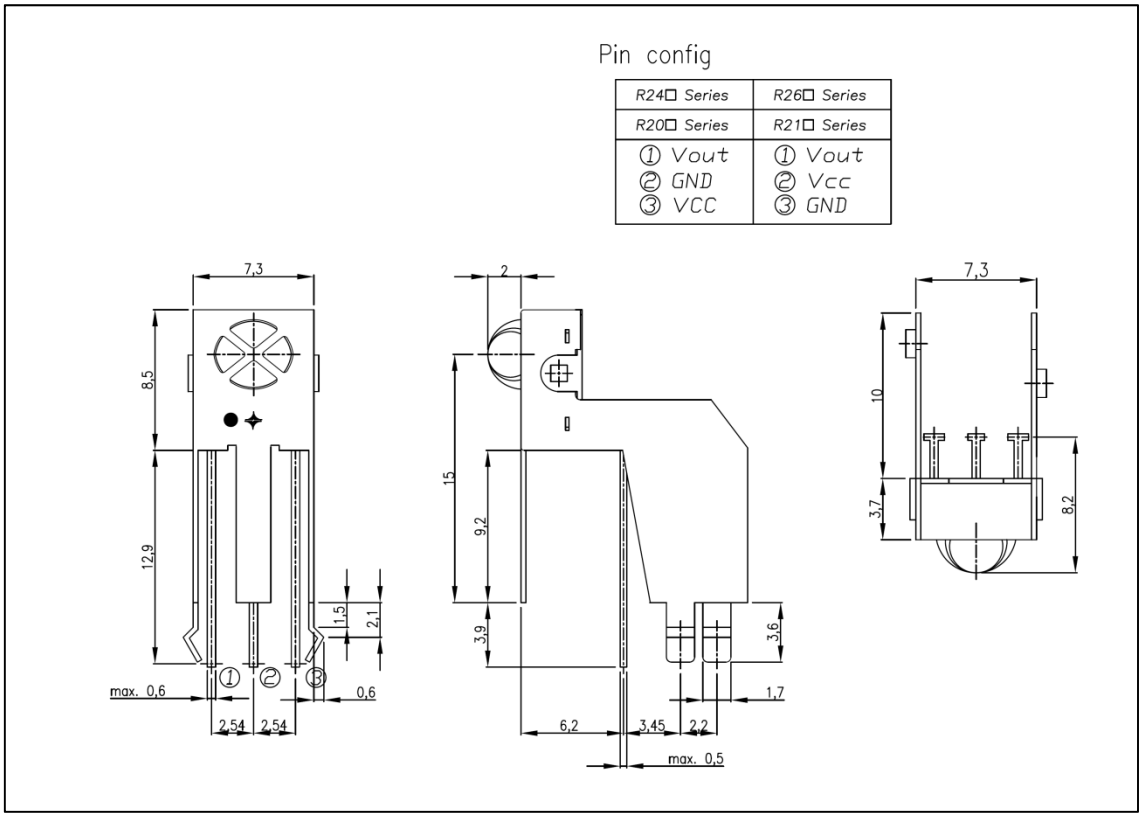
■ R3□□S3-□□


Pin config
R24□ Series
R26□ Series
R20□ Series
R21□ Series
① Vout
② GND
③ VCC
① Vout
② Vcc
③ GND
0,6
1,5
1,5
3,6
16,4
7,3
8,5
5,8
9,7
3,9
max. 0,6
2,54
2,54
2
1,4
9,6
11,3
18±1
16,4
max. 7°
max. 0,5

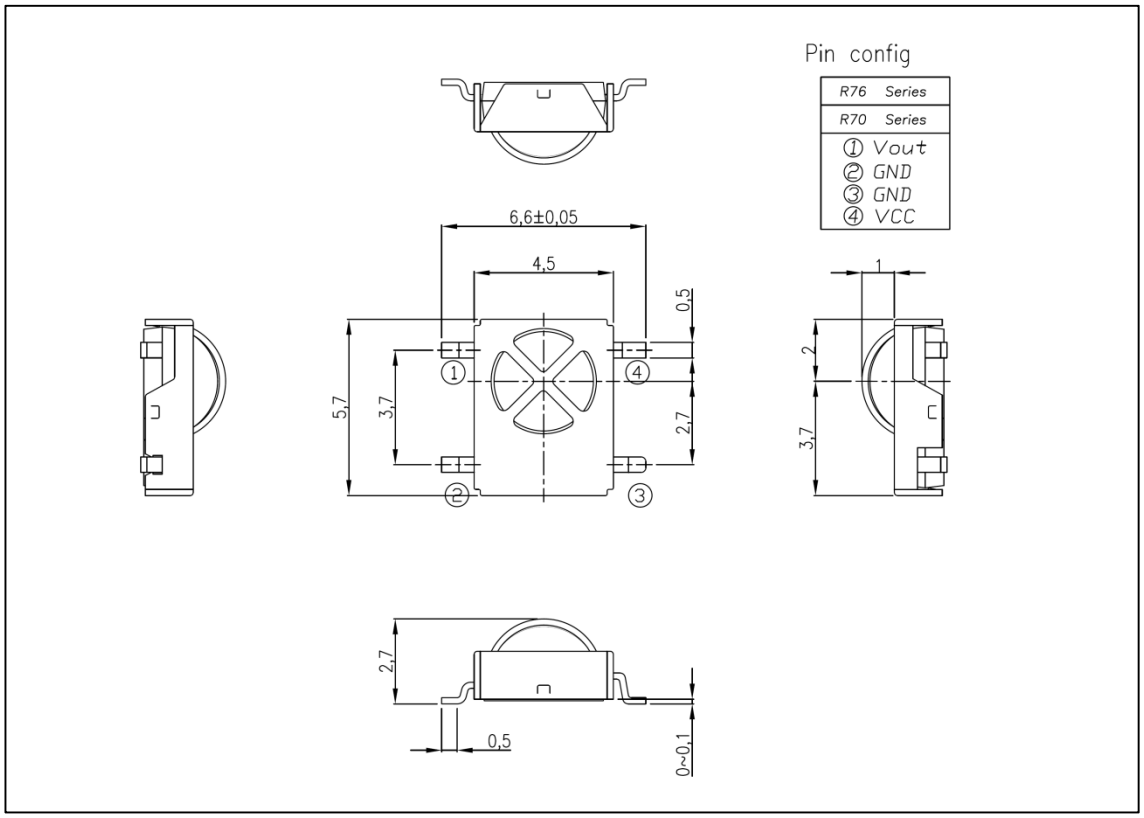
■ R3□□S4-□□


Pin config
R24□ Series
R26□ Series
R20□ Series
R21□ Series
① Vout
② GND
③ VCC
① Vout
② Vcc
③ GND
7,3
8,5
7,5
1,5
2,1
max. 0,6
0,6
2,54
2,54
2
9,6
3,8
3,9
3,6
1,7
6,2
3,45
2,2
max. 0,5
7,3
10
3,7
8,2

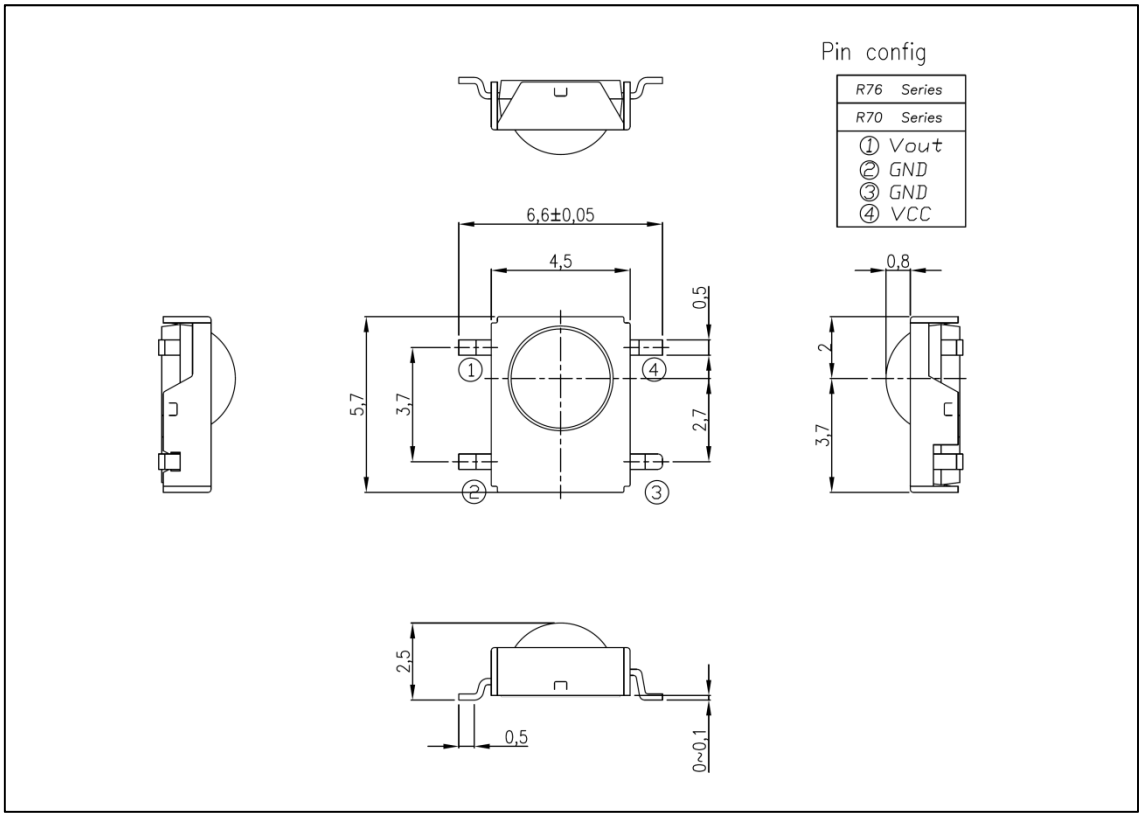
■ R3□□S5-□□


Pin config
R24□ Series
R26□ Series
R20□ Series
R21□ Series
① Vout
② GND
③ VCC
① Vout
② Vcc
③ GND
7,3
8,5
12,9
1,5
2,1
max. 0,6
0,6
2,54
2,54
2
15
9,2
3,9
3,6
1,7
6,2
3,45
2,2
max. 0,5
7,3
10
3,7
8,2

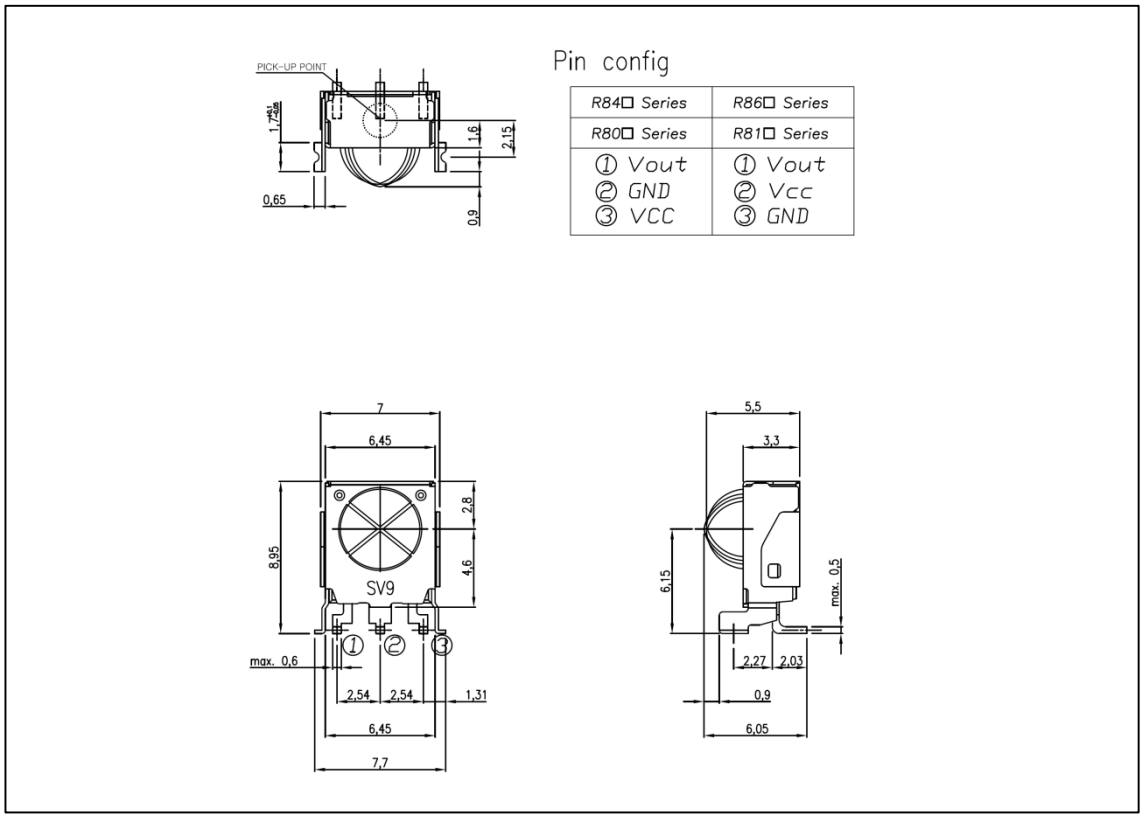
■ R7□□M-□□


Pin config
R76 Series
R70 Series
① Vout
② GND
③ GND
④ VCC
6,6±0,05
4,5
0,5
5,7
3,7
2,7
1
2
3,7
2,7
0,5
0~0,1

■ R7□□NM-□□


Pin config
R76 Series
R70 Series
① Vout
② GND
③ GND
④ VCC
6,6±0,05
4,5
0,5
5,7
3,7
2,7
0,8
2
3,7
2,5
0,5
0~0,1

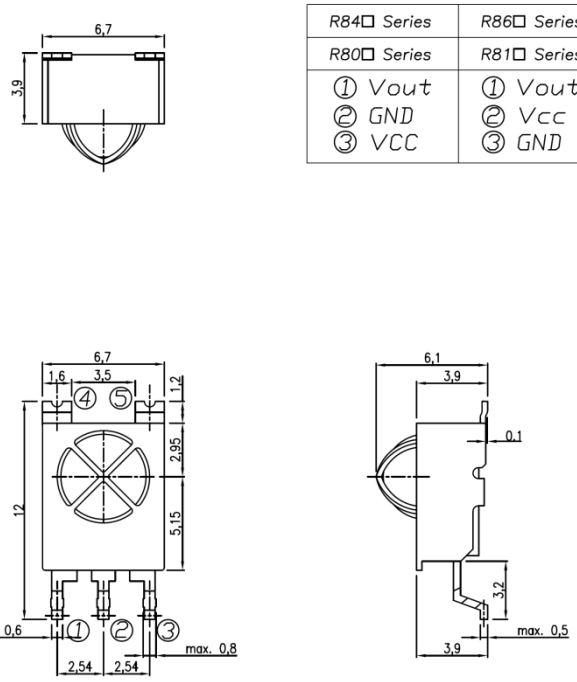
■ R8□□SV9-□□


PICK-UP POINT
1,75
1,6
2,15
0,65
0,9
Pin config
R84□ Series
R86□ Series
R80□ Series
R81□ Series
① Vout
② GND
③ VCC
① Vout
② Vcc
③ GND
7
6,45
2,8
8,95
4,6
SV9
max. 0,6
2,54
2,54
1,31
6,45
7,7
5,5
3,3
6,15
max. 0,5
2,27
2,03
0,9
6,05

■ R8□□SH6-□□

Pin config

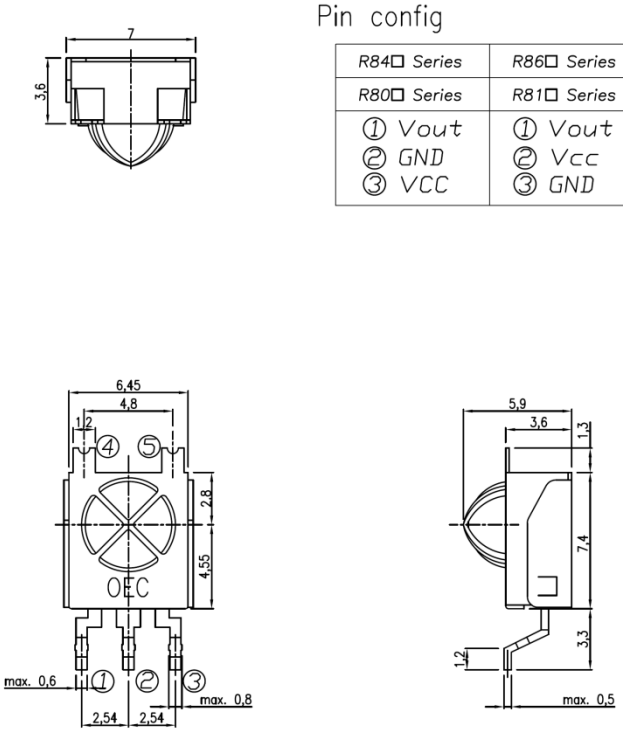
R84□ Series	R86□ Series
R80□ Series	R81□ Series
① Vout ② GND ③ VCC	① Vout ② Vcc ③ GND



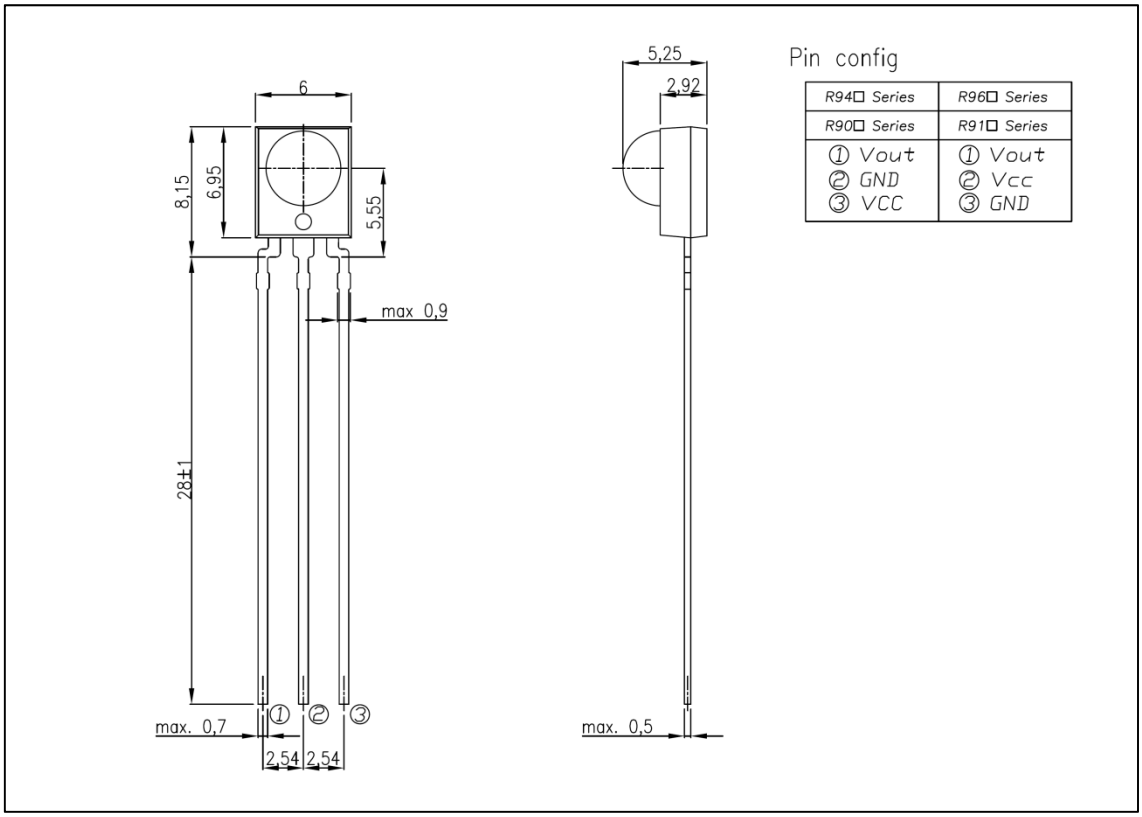
■ R8□□SB6-□□

Pin config

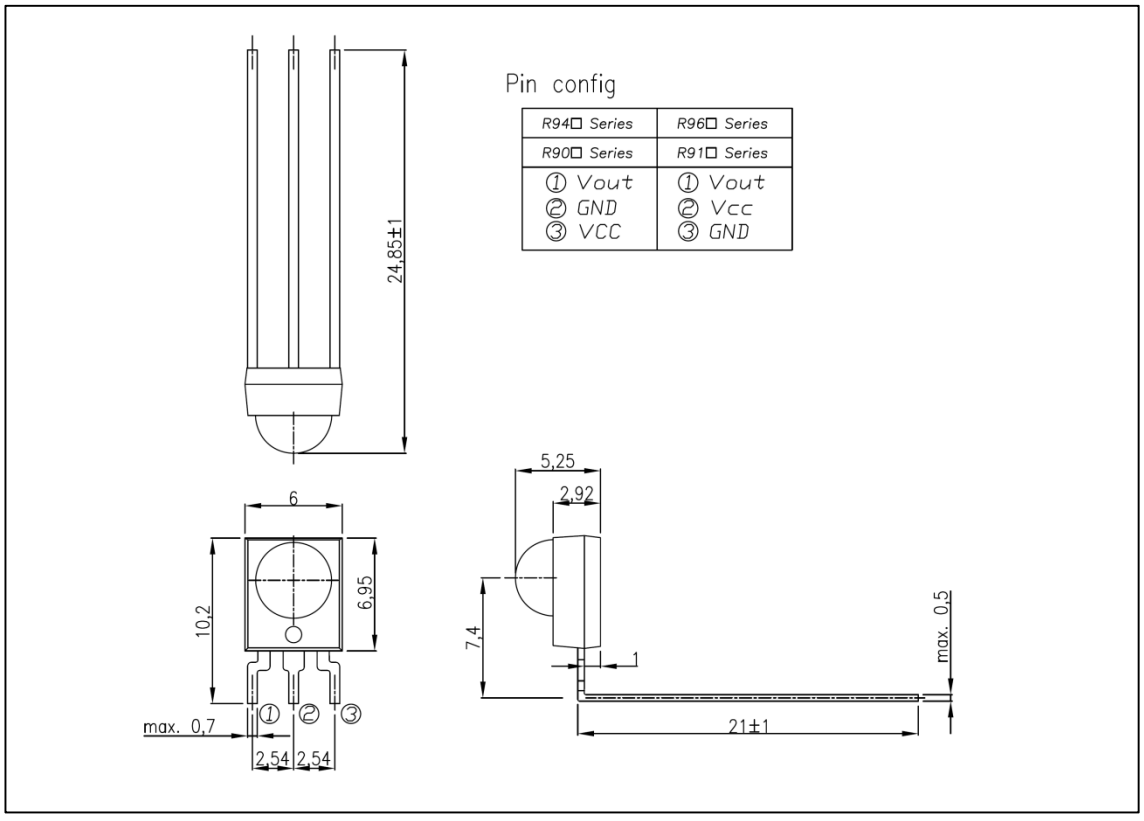
R84□ Series	R86□ Series
R80□ Series	R81□ Series
① Vout ② GND ③ VCC	① Vout ② Vcc ③ GND



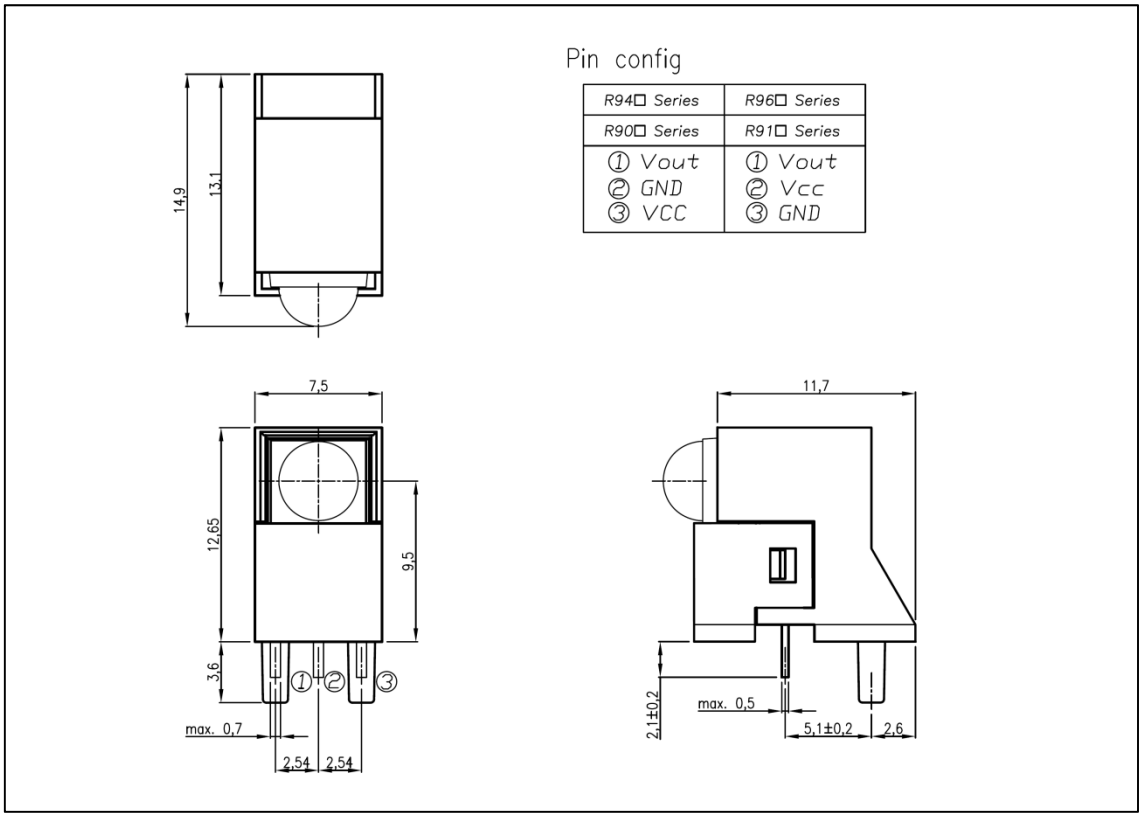
■ R9□□V1-□□


6
8,15
6,95
5,55
max 0,9
28±1
max. 0,7
① ② ③
2,54 2,54
5,25
2,92
max. 0,5
Pin config
R94□ Series
R90□ Series
① Vout
② GND
③ VCC
R96□ Series
R91□ Series
① Vout
② Vcc
③ GND

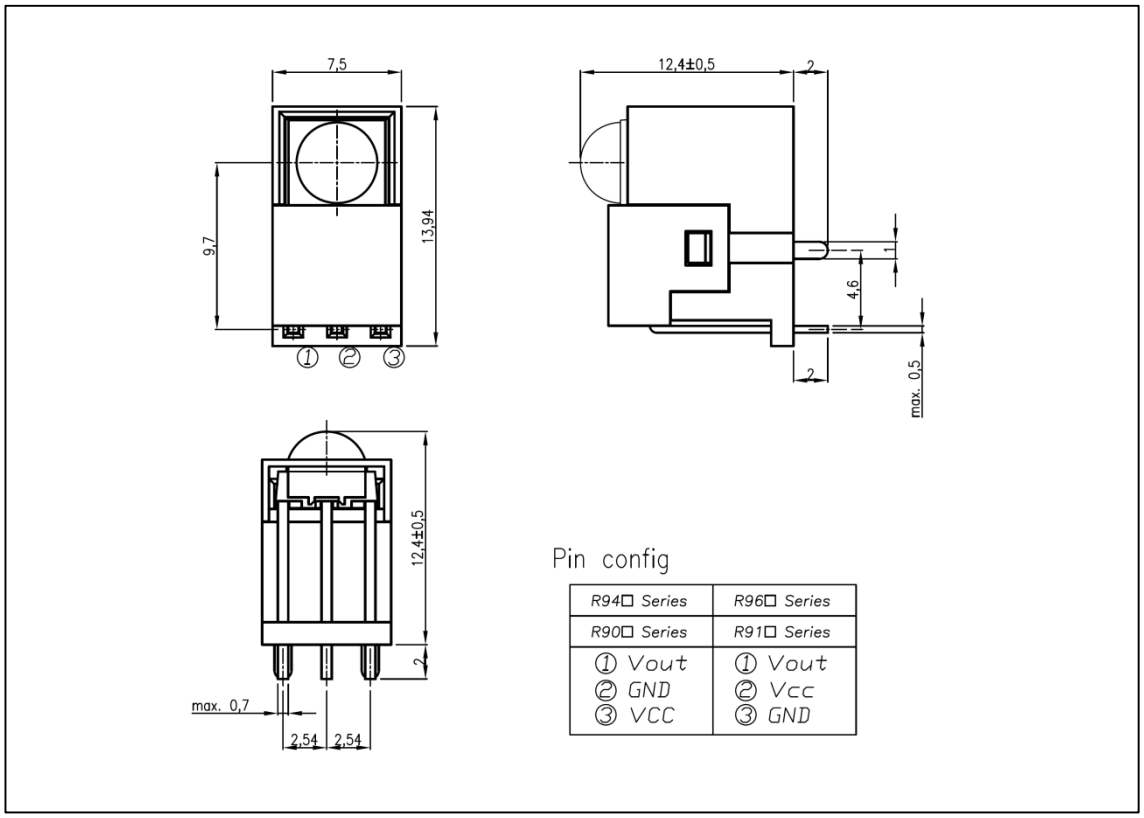
■ R9□□H1-□□


24,85±1
6
10,2
6,95
max. 0,7
① ② ③
2,54 2,54
5,25
2,92
7,4
1
max. 0,5
21±1
Pin config
R94□ Series
R90□ Series
① Vout
② GND
③ VCC
R96□ Series
R91□ Series
① Vout
② Vcc
③ GND

■ R9□□T1-□□


Pin config
R94□ Series
R96□ Series
R90□ Series
R91□ Series
① Vout
② GND
③ VCC
① Vout
② Vcc
③ GND
14,9
13,1
7,5
12,65
9,5
3,6
max. 0,7
2,54
2,54
11,7
max. 0,5
2,1±0,2
5,1±0,2
2,6

■ R9□□T2-□□


7,5
9,7
13,94
12,4±0,5
2
1
4,6
2
max. 0,5
12,4±0,5
2
max. 0,7
2,54
2,54
Pin config
R94□ Series
R96□ Series
R90□ Series
R91□ Series
① Vout
② GND
③ VCC
① Vout
② Vcc
③ GND

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