
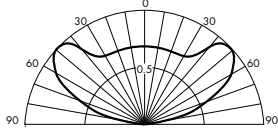

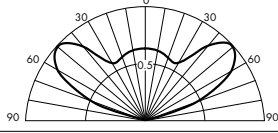

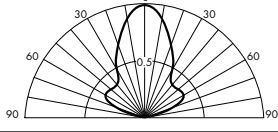

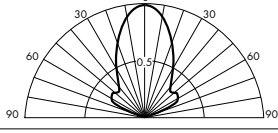

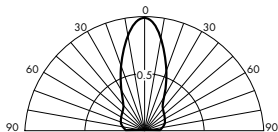

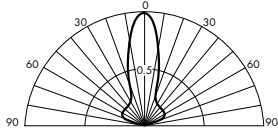

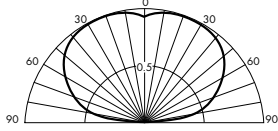

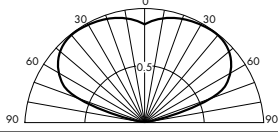

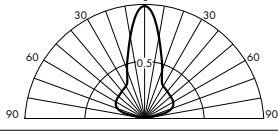

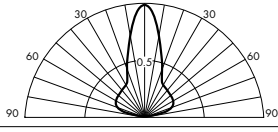

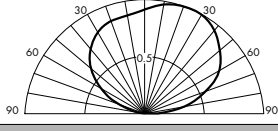


# SMT SHAPE - INFRARED LED

## Infrared LED

Ta=25°C

Shape	Part No.	Features	Peak Wavelength P		Radiant Intensity I <sub>E</sub>			Output Power P <sub>O</sub>		Cut-Off Frequency F <sub>C</sub>			Spatial Distribution (The typical distribution example of each shape is shown below)	fig.
			TYP.	I <sub>F</sub>	MIN.	TYP.	I <sub>F</sub>	TYP.	I <sub>F</sub>	MIN.	TYP.	I <sub>F</sub>		
	<b>DNP1101W</b>	Flat lens package	880	20	0.5	1.0	20	5	20	—	12	20		1
	<b>AN1101W</b>	Flat lens package	950	20	0.2	0.4	20	2	20	—	0.5	20		1
	<b>DNP1102W</b>	Inner lens package	880	20	—	2.2	20	4	20	—	12	20		2
	<b>AN1102W</b>	Inner lens package	950	20	0.5	0.8	20	2	20	—	0.5	20		2
	<b>DNP1105W</b>	Dome-lens High radiant intensity Reverse and standard mounting	880	20	2.0	4.0	20	2	20	—	12	20		3
	<b>AN1105W</b>	Dome-lens High radiant intensity Reverse and standard mounting	950	20	1.0	1.4	20	2	20	—	0.5	20		3
	<b>DNP1111R</b>	Reverse mount Flat lens package	880	20	0.5	1.0	20	5	20	—	12	20		4
	<b>AN1111R</b>	Reverse mount Flat lens package	950	20	0.2	0.28	20	2	20	—	0.5	20		5
	<b>DNP1102F</b>	Side view package	880	50	1.5	3.0	20	2	20	—	12	20		6
	<b>AN1102F</b>	Side view package	950	20	0.35	0.5	20	2	20	—	0.5	20		6
	<b>AN1111C</b>	Compact 1608 size	950	20	0.2	0.28	20	2	20	—	0.5	20		7
Unit			nm	mA	mW/sr	mA	mW	mA	MHz	mA				

All above products contain no lead

# SMT SHAPE - INFRARED LED

## Package Dimensions

unit: mm

fig. 1

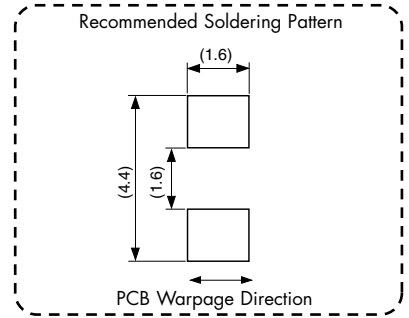
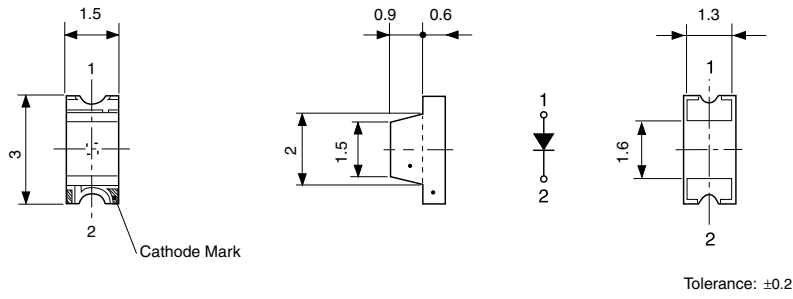


fig. 2

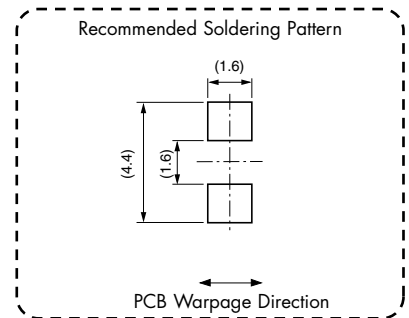
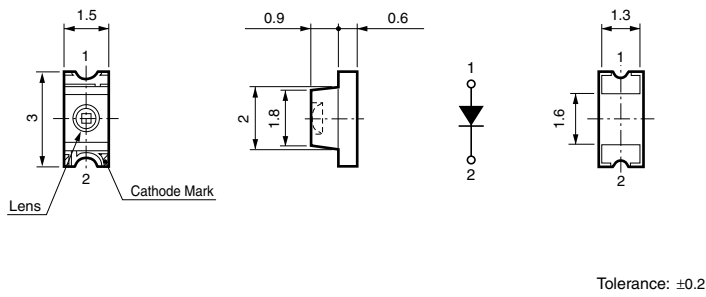


fig. 3

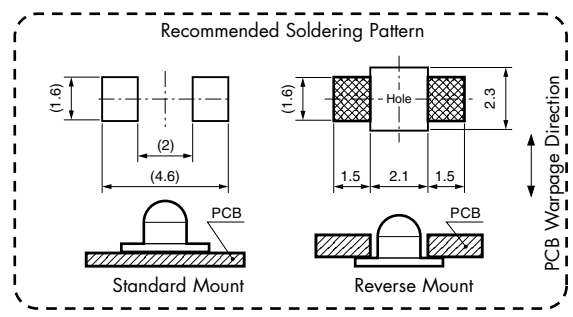
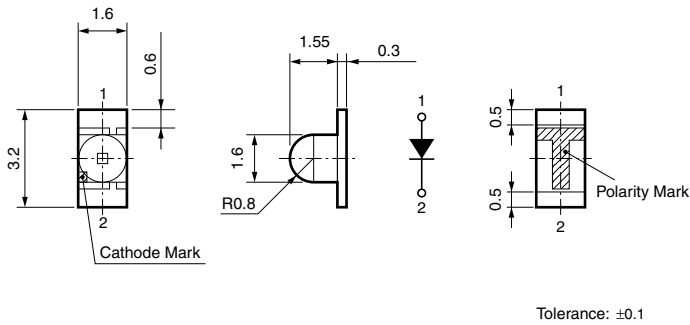
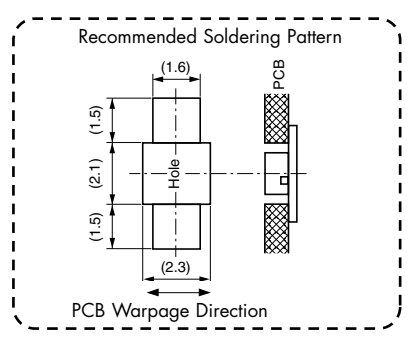
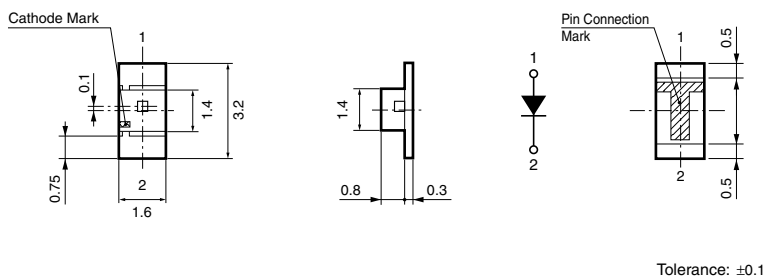


fig. 4

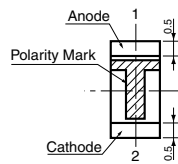
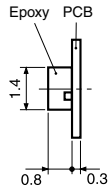
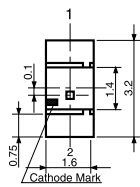


# SMT SHAPE - INFRARED LED

## Package Dimensions

unit: mm

fig. 5



Tolerance:  $\pm 0.1$

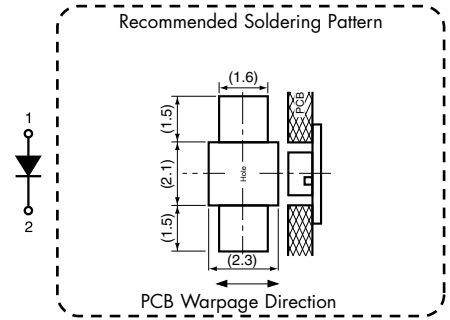
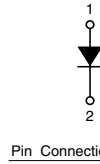
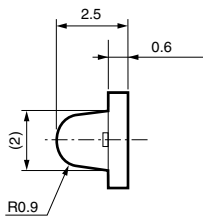
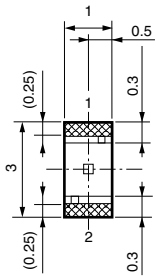


fig. 6



Tolerance:  $\pm 0.15$

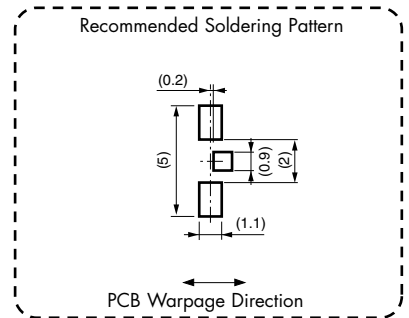
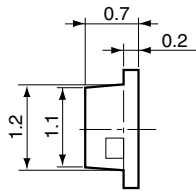
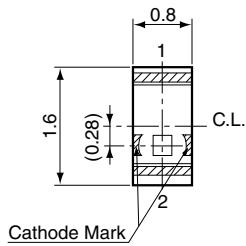
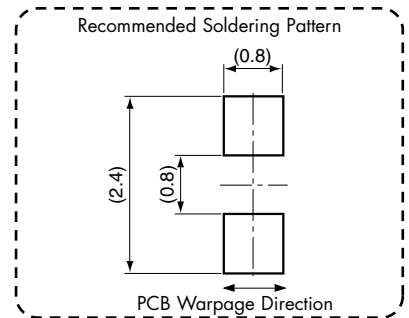


fig. 7



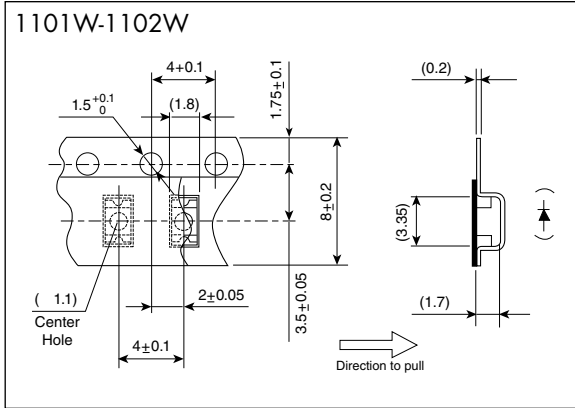
Tolerance:  $\pm 0.1$



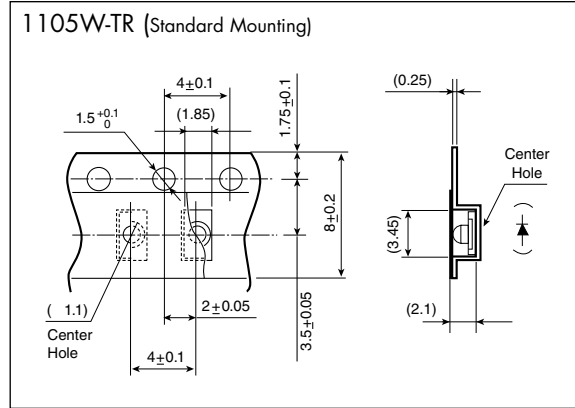
# SMT SHAPE - INFRARED LED

## Taping Specifications

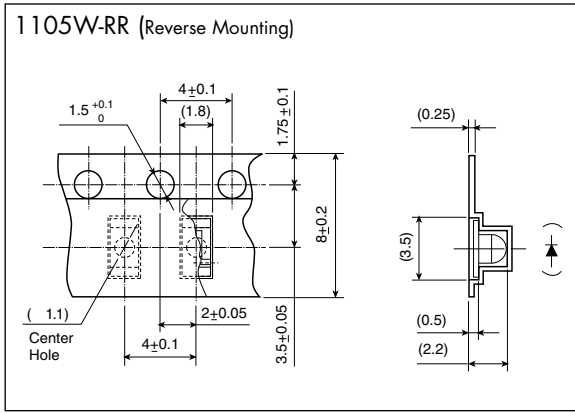
unit: mm



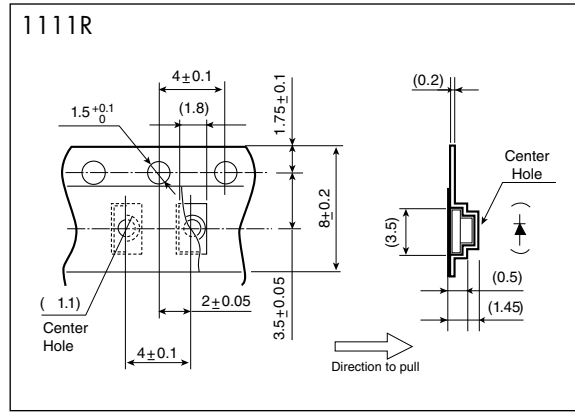
Quantity per Reel: 2,500



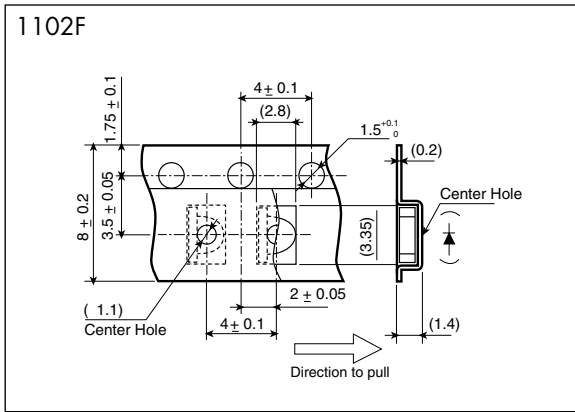
Quantity per Reel: 2,000



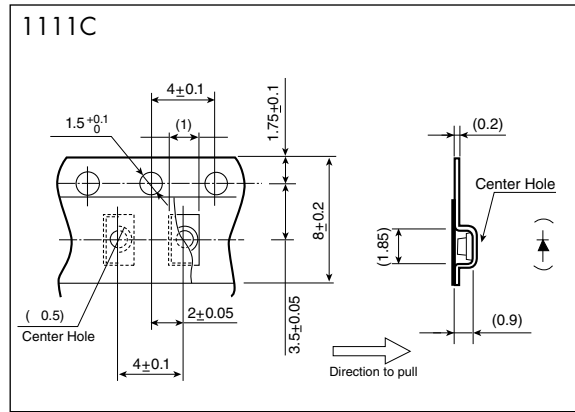
Quantity per Reel: 2,000



Quantity per Reel: 3,000



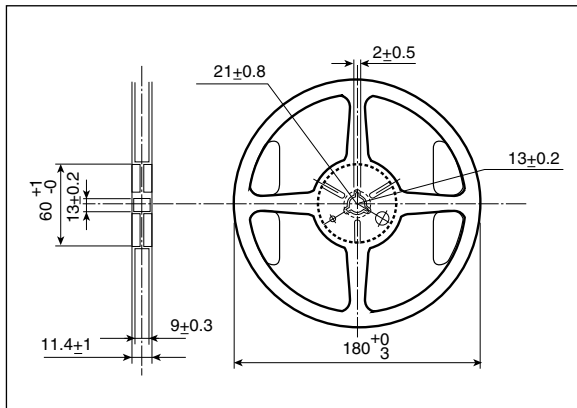
Quantity per Reel: 3,000



Quantity per Reel: 4,000

## Reel Specifications


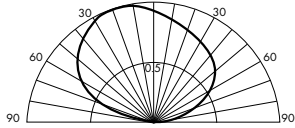

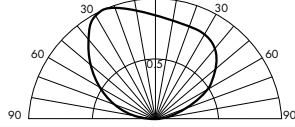

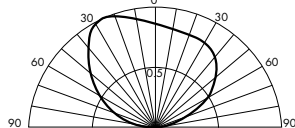

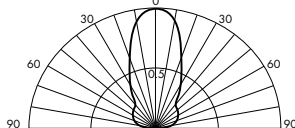

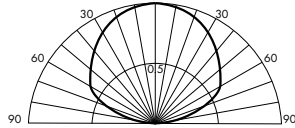

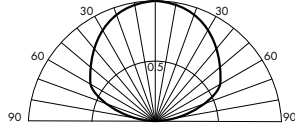
unit: mm



# SMT SHAPE - PHOTO TRANSISTOR AND PIN PHOTO DIODE

## Photo Transistor


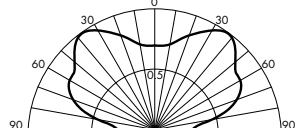
Ta= 25°C

Shape	Part No.	Features	Wavelength of Peak Sensitivity P TYP.	Photo Current I <sub>c</sub>				Response Time tr • tf TYP.	Spatial Distribution (The typical distribution example of each shape is shown below)	fig.
				MIN.	TYP.	V <sub>CE</sub>	E <sub>e</sub>			
	<b>PS1101WA</b>	—	880	0.7	3.5	5	5	8/9		1
	<b>PS1101RA</b>	Reverse Mount	880	0.4	2.0	5	5	8/9		2
	<b>PS1191RA</b>	Reverse Mount with visible radiation cut filter under 700nm	900	0.4	2.0	5	5	8/9		2
	<b>PS1192FA</b>	Side view package with visible radiation cut filter under 700nm	900	1.4	7.0	5	5	8/9		3
	<b>PS1102HA</b>	Compact size	880	0.4	2.0	5	5	8/9		4
	<b>PS1192HA</b>	Compact size with visible radiation cut filter under 700nm	900	0.4	2.0	5	5	8/9		4
Unit			nm	mA		V	mW/cm <sup>2</sup>	s		

I<sub>c</sub>=2mA, V<sub>CE</sub>=10V, R<sub>L</sub>=100  
All above products contain no lead

## Pin Photo Diode

Ta= 25°C

Shape	Part No.	Features	Wavelength of Peak Sensitivity P TYP.	Photo Current I <sub>c</sub>				Response Time tr • tf TYP.	Spatial Distribution (The typical distribution example of each shape is shown below)	fig.
				MIN.	TYP.	V <sub>CE</sub>	E <sub>e</sub>			
	<b>PP1101W</b>	—	950	2.0	4.0	5	5	50		5
Unit			nm	mA		V	mW/cm <sup>2</sup>	ns		

Product contains no lead

# SMT SHAPE - PHOTO TRANSISTOR AND PIN PHOTO DIODE

## Package Dimensions

unit: mm

fig. 1

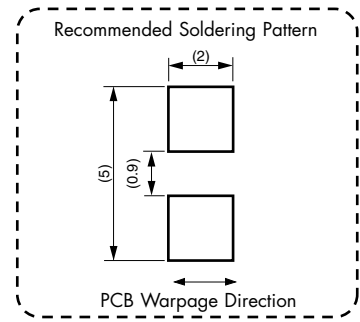
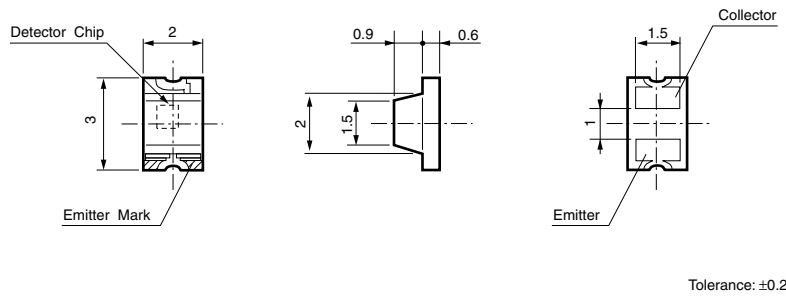


fig. 2

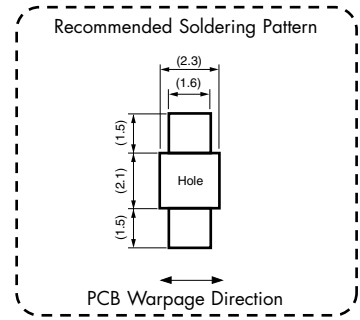
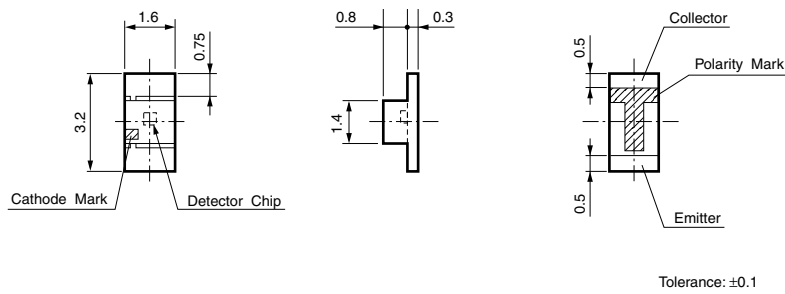


fig. 3

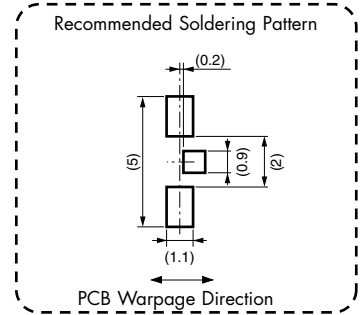
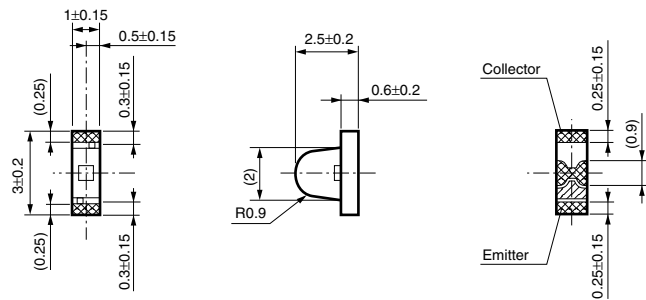
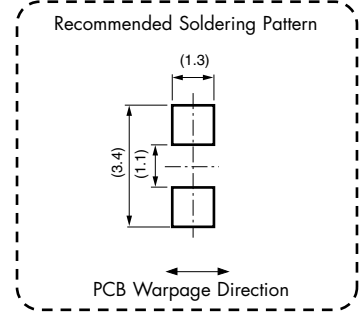
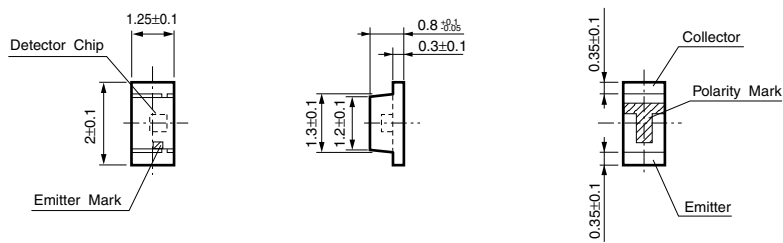


fig. 4

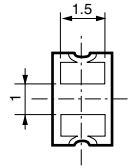
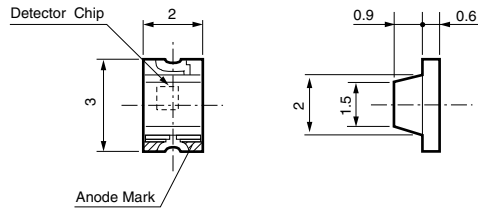


# SMT SHAPE - PHOTO TRANSISTOR AND PIN PHOTO DIODE

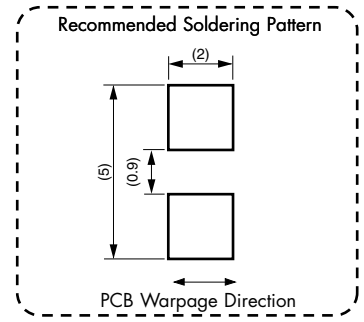
## Package Dimensions

unit: mm

fig. 5



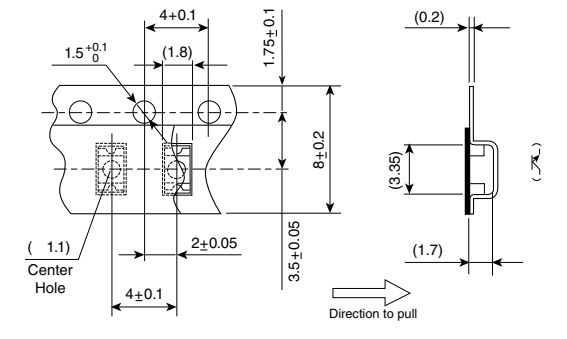
Tolerance:  $\pm 0.2$



## Taping Specifications

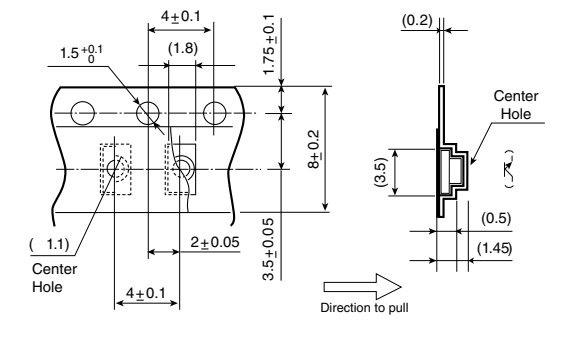
unit: mm

1101WA



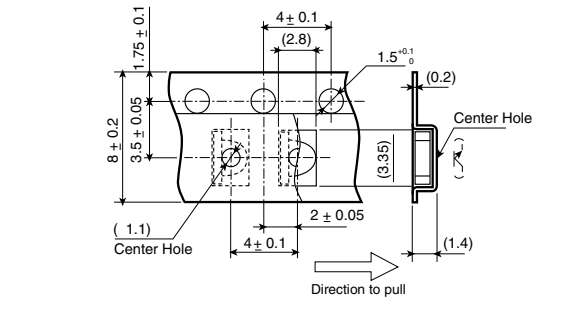
Quantity per Reel: 2,500

1101RA-1191RA



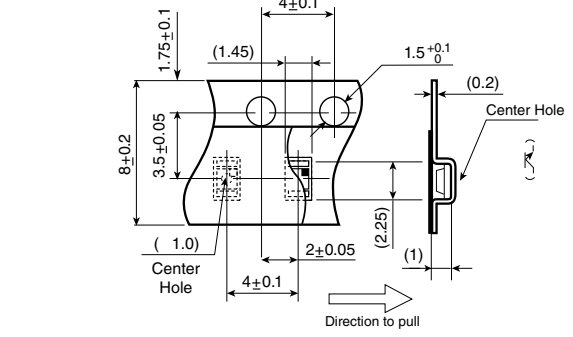
Quantity per Reel: 3,000

1192FA



Quantity per Reel: 3,000

1102HA-1192HA



Quantity per Reel: 4,000

## Reel Specifications

unit: mm

