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Translated from Japanese to English - www.onlinedoctranslator.com

Thin surface emitting transmissive type<SMD LED Type>

TU SERIES / TT SERIES

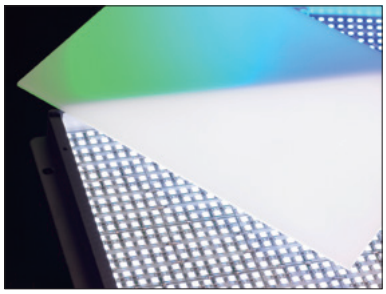
d Light | Diffuse Light

Tips LED | High brightness | Thin | High uniformity irradiation | infra-red LED available

This is a surface-emitting type high-brightness transmitted light that uses a high-brightness chip LED as the light-emitting element. The LED element is mounted directly under the light-emitting surface, but the thickness of the light starts from just 8 mm. The unique characteristics of the chip LED with its wide spread angle have been fully utilized to achieve a thin, highly uniform transmitted light. A special diffusion plate with high diffusion properties is used for the light-emitting surface. A wide transmitted light-emitting surface with high brightness and high uniformity can be secured. The wide range of light-emitting surface sizes makes it useful for a variety of workpieces and detection purposes.

Applications ● Various shape recognition ● Dimensional measurement ● Foreign body inspection ● Liquid level check ● Pinhole Inspection ● Sheet material inspection, etc.





Internal photo of the thin surface-emitting transmissive type.

A chip LED is mounted directly below the light-emitting surface.

Features

From just 8mm thick

This is a surface-emitting type transmitted light that uses high-brightness chip LEDs as the light-emitting element. The thickness starts from just 8mm. The characteristics of the chip LED with a wide spread angle are fully utilized.

The size of the light-emitting surface can be selected according to the purpose.

We have a wide range of types available, from small lighting with a light-emitting surface of 30mm square to large lighting with a light-emitting surface of 300 x 300mm. Please select the type based on the size of the target field of view and other conditions.

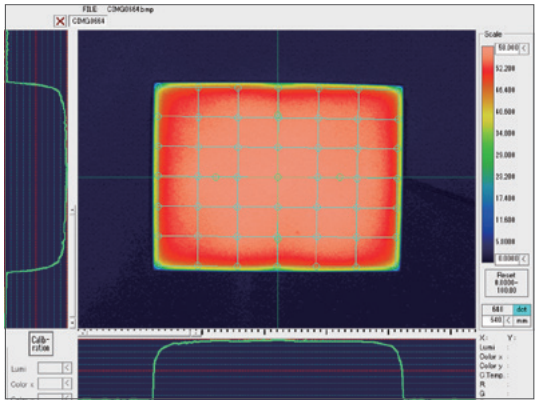
Emitting colors are white, red, green, blue, and infrared (850 nm)

Thin transmitted light is available in white, red, green, blue and infrared (850 nm) as standard.

Please contact us for the size of the light emitting surface.

Nissin Electronics has a track record of producing many types with different emitting surface sizes. Please feel free to contact us about sizes other than the standard sizes.

Luminance distribution characteristics



Lighting model: WTU-90120

*The distribution diagram shows relative brightness.

Dimensions

Figure <1>

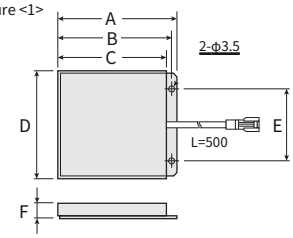


Figure <2>

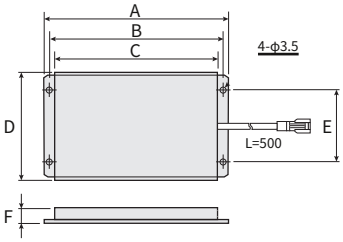


Figure <3>

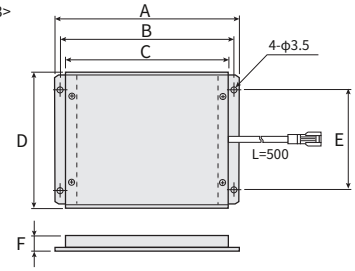


Figure <4>

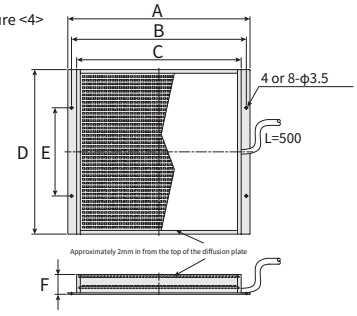
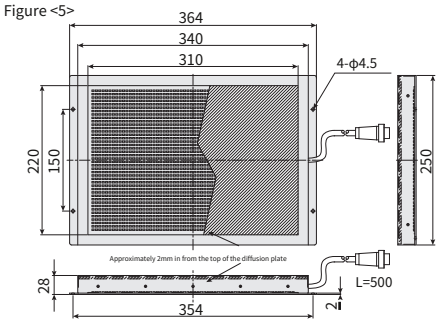


Figure <5>



CAD drawings can be downloaded from the website. Please feel free to use them.

External dimensions and specifications

How to read the model numbers of the TU series/TT series

□T□-3030(8)

- For 8mm case thickness
- Light emitting part size
- U➡Fit the diffuser into the case
- T➡The diffusion plate is fixed to the case with screws.

□ A letter indicating the light color is entered.

- ○ Red (high brightness)➡R
- ○ White➡W
- ● green➡G
- ● Blue➡B
- ● red➡R
- ● infra-red➡IR (850nm)

In red Type and Ⓡ There is a type.

The design follows the conventional shape with a case thickness of 8mm.Ⓡ This model is a high-brightness model equipped with a new LED chip element.Ⓡ The type is It is about twice as bright as the conventional type.

Case thickness 15mm type

Red (R) White (W) Green (G) Blue (B) Infrared (IR)

Emitting color	Model	figure	connector		A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Light emitting part (mm)	Power consumption (W)			mass (g)
			White, green, blue	Red/Infrared								White, green, blue	red	infra-red	
	□ TU-3030	1	S.M.	S.M.	40	36.5	33	33	15	15	30×30	3.0	1.2	1.5	20
	□ TU-3060	1	S.M.	S.M.	40	36.5	33	63	40	15	30×60	5.8	2.4	2.9	50
	□ TU-3090	2	S.M.	S.M.	107	100	93	33	15	15	30×90	8.8	3.6	4.4	90
	□ TT-30120	3	S.M.	S.M.	148	140	132	34	15	15	30×120	11.6	4.8	5.8	130
	□ TT-30150	3	S.M.	S.M.	178	170	162	34	15	15	30×150	14.4	6.0	7.2	180
	□ TT-30180	3	S.M.	S.M.	208	200	192	34	15	15	30×180	17.3	7.2	8.7	200
	□ TT-30420	4	S.M.	S.M.	452	442	432	42	20	18	32×422	40.4	16.8	20.2	500
	□ TT-30600	4	EL	S.M.	632	622	610	42	20	18	32×602	57.6	24.0	28.8	710
	□ TU-6060	1	S.M.	S.M.	70	66.5	63	63	40	15	60×60	11.6	4.8	5.8	110
	□ TU-6090	2	S.M.	S.M.	107	100	93	63	40	15	60×90	17.4	7.2	8.7	120
	□ TU-60120	2	S.M.	S.M.	137	130	one two three	63	40	15	60×120	23.2	9.6	11.6	200
	□ TT-60150	3	S.M.	S.M.	178	170	162	64	40	15	60×150	28.8	12.0	14.4	160
	□ TT-60180	3	S.M.	S.M.	208	200	192	64	40	15	60×180	34.6	14.4	17.3	120
	□ TT-60210	3	S.M.	S.M.	238	230	222	64	40	15	60×210	40.3	16.8	20.2	130
	□ TT-60240	3	S.M.	S.M.	268	260	252	64	40	15	60×240	46.1	19.2	23.0	140
	□ TT-60270	3	S.M.	S.M.	298	290	282	64	40	15	60×270	51.8	21.6	25.9	150
	□ TU-9090	2	S.M.	S.M.	107	100	93	93	70	15	90×90	26.0	10.8	13.0	160
	□ TU-90120	2	S.M.	S.M.	137	130	one two three	93	70	15	90×120	34.6	14.4	17.3	200
	□ TT-90150	3	S.M.	S.M.	178	170	162	94	70	15	90×150	43.2	18.0	21.7	260
	□ TT-90180	3	S.M.	S.M.	208	200	192	94	70	15	90×180	51.9	21.6	26.0	280
	□ TT-90210	3	EL	S.M.	238	230	222	94	70	15	90×210	60.5	25.2	30.3	300
	□ TT-90240	3	EL	S.M.	268	260	252	94	70	15	90×240	69.1	28.8	34.6	200
	□ TT-90270	3	EL	S.M.	298	290	282	94	70	15	90×270	77.8	32.4	38.9	400
	□ TT-90300	3	EL	S.M.	328	320	312	94	70	15	90×300	86.4	36.0	43.2	310
	□ TT-120120	3	S.M.	S.M.	148	140	132	124	80	15	120×120	46.1	19.2	23.1	150
	□ TT-120150	3	EL	S.M.	178	170	162	124	80	15	120×150	57.6	24.0	28.9	310
	□ TT-120180	3	EL	S.M.	208	200	192	124	80	15	120×180	69.1	28.8	34.6	230
	□ TT-120210	3	EL	S.M.	238	230	222	124	80	15	120×210	80.7	33.6	40.4	350
	□ TT-120240	3	EL	S.M.	268	260	252	124	80	15	120×240	92.2	38.4	46.1	400
	□ TT-150150	3	EL	S.M.	178	170	162	154	100	15	150×150	72.0	30.0	36.0	210
	□ TT-150180	3	EL	S.M.	208	200	192	154	100	15	150×180	86.4	36.0	43.3	240
	□ TT-150210	3	EL	S.M.	238	230	222	154	100	15	150×210	100.8	42.0	50.4	280
	□ TT-C2121	4	metal	EL	248	238	224	224	120	27	210×210	141.2	58.8	70.6	840
	□ TT-C2130	5	metal	EL	364	354	340	250	150 (hole φ4.5)	28	220×310	201.6	84.0	100.8	1.2kg
	□ TT-C2424	4	metal	EL	278	268	254	254	120	27	240×240	184.3	76.8	92.3	1.9kg
	□ TT-C3030	4	metal	metal	338	328	314	314	4 pieces (pitch 80)	27	300×300	288.0	120.0	144.0	2.9kg

Ⓡ red (High brightness)
Ⓦ White
G green
B Blue
IR infra-red (850nm)

● The input voltage is DC12V.

Case thickness 8mm type

White (W) Green (G) Blue (B) Red (R) Infrared (IR)

Emitting color	Model	figure	connector		A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	Light emitting part (mm)	Power consumption (W)		mass (g)
			White, green, blue	Red/Infrared								White, green, blue	Red/Infrared	
	□ TU-3030 (8)	1	S.M.	S.M.	38	35	32	32	15	8	30×30	3.0	1.5	30
	□ TU-3060 (8)	1	S.M.	S.M.	38	35	32	62	40	8	30×60	5.8	2.9	30
	□ TU-3090 (8)	2	S.M.	S.M.	104	98	92	32	15	8	30×90	8.8	4.4	40
	□ TT-30120 (8)	3	S.M.	S.M.	148	140	132	34	15	8	30×120	11.6	5.8	40
	□ TT-30150 (8)	3	S.M.	S.M.	178	170	162	34	15	8	30×150	14.4	7.2	90
	□ TT-30180 (8)	3	S.M.	S.M.	208	200	192	34	15	8	30×180	17.3	8.7	140
	□ TU-6060 (8)	1	S.M.	S.M.	68	65	62	62	40	8	60×60	11.6	5.8	60
	□ TU-6090 (8)	2	S.M.	S.M.	104	98	92	62	40	8	60×90	17.4	8.7	70
	□ TU-60120 (8)	2	S.M.	S.M.	134	128	122	62	40	8	60×120	23.2	11.6	120
	□ TT-60150 (8)	3	S.M.	S.M.	178	170	162	64	40	8	60×150	28.8	14.4	160
	□ TT-60180 (8)	3	S.M.	S.M.	208	200	192	64	40	8	60×180	34.6	17.3	200
	□ TT-60210 (8)	3	S.M.	S.M.	238	230	222	64	40	8	60×210	40.3	20.2	250
	□ TU-9090 (8)	2	S.M.	S.M.	104	98	92	92	70	8	90×90	26.0	13.0	130
	□ TU-90120 (8)	2	S.M.	S.M.	134	128	122	92	70	8	90×120	34.6	17.3	180
	□ TT-90150 (8)	3	S.M.	S.M.	178	170	162	94	70	8	90×150	43.2	21.7	210
	□ TT-90180 (8)	3	S.M.	S.M.	208	200	192	94	70	8	90×180	51.9	26.0	260
	□ TT-90210 (8)	3	EL	S.M.	238	230	222	94	70	8	90×210	60.5	30.3	400
	□ TT-120120 (8)	3	S.M.	S.M.	148	140	132	124	80	8	120×120	46.1	23.1	240
	□ TT-120150 (8)	3	EL	S.M.	178	170	162	124	80	8	120×150	57.6	28.9	280
	□ TT-120180 (8)	3	EL	S.M.	208	200	192	124	80	8	120×180	69.1	34.6	350
	□ TT-120210 (8)	3	EL	S.M.	238	230	222	124	80	8	120×210	80.7	40.4	410
	□ TT-150150 (8)	3	EL	S.M.	178	170	162	154	100	8	150×150	72.0	36.1	340
	□ TT-150180 (8)	3	EL	S.M.	208	200	192	154	100	8	150×180	86.4	43.3	230
	□ TT-150210 (8)	3	EL	S.M.	238	230	222	154	100	8	150×210	100.8	50.4	320

Ⓦ White
G green
B Blue
red
IR infra-red (850nm)

● The input voltage is DC12V.

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