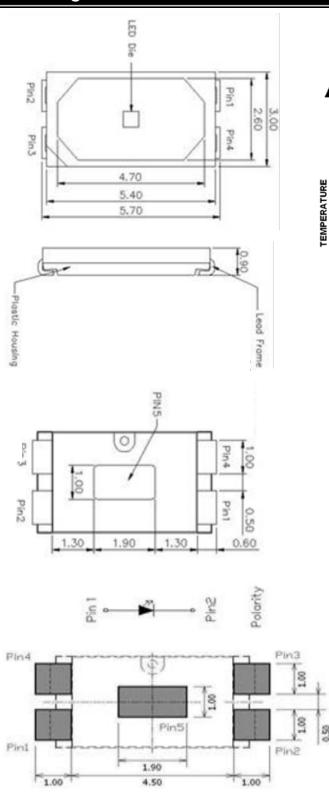
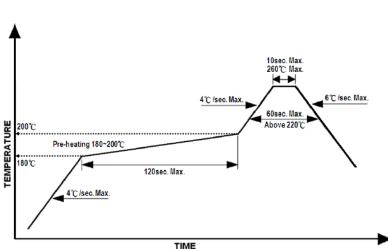
5630 Package Power White Surface Mount Device

Part Number: 62-217BUW1C2

Package outlines & Re-flow Profile



■Reflow Temp/Time



■Soldering iron

Basic spec is \leq 5sec when 260°C. If temperature is higher, time should be shorter (+10°C \rightarrow -1sec). Power dissipation of iron should be smaller than 15W, and temperatures should be controllable . Surface temperature of the device should be under 230°C.

ITEM	MATERIALS
Resin (mold)	Ероху
Lens color	Yellow Diffused
Printed circuit board	BT
Emitted color	White
Material	InGaN

NOTES:

- 1. All dimensions are in millimeters (inches);
- 2. Tolerances are ± 0.1 mm (0.004inch) unless otherwise noted.
- 3. Polarity referring onto the cathode mark is reversed on the red.

Part Number: 62-217BUW1C2

(Pulse Width \leq 10msec, and duty \leq 1/10)

ELECTRO-OPTICAL CHARACTERISTICS $(T_A=25^{\circ}C)$ **Value** Test **Symbol Parameter** Unit Condition MIN. TYP. MAX. 120 Viewing angle at 50% I_V I_F=150mA $2\theta 1/2$ Deg Forward voltage I_F=150mA 2.8 ---٧ V_{F} 3.5 5250 5750 6250 **Color Temperature** CCT K I_F=150mA 3750 4000 4250 54 Luminous Flux $I_F=150mA$ Flux lm 56 Pulse Forward Current

300

 I_{FP}

mΑ

Absolute maximum ratings (T _A =2								
Parameter	Symbol	Value	Unit					
Forward current	l _F	150	mA					
Reverse voltage	V _R	5	V					
Reverse current	I _R	1	μА					
Power dissipation	PD	585	mW					
Operating temperature range	Тор	-30 ~+80	$^{\circ}\!\mathbb{C}$					
Storage temperature range	Tstg	-40 ~+85	$^{\circ}\!\mathbb{C}$					

Part Number: 62-217BUW1C2

Bin Code

Iv Bin:

Color	Bin Code	Spec Pange
Coloi		Spec. Range
	MC2	15.8~18.1lm
	MD2	16.9 ~18.1Im
	NA1	18.1~19.3lm
	NB1	19.3~20.6lm
	NC2	20.6~22.0lm
	ND2	22.0~23.5lm
	AP1	23.4~25.1lm
	BP1	25.1~26.8m
	CP2	26.8~28.6m
	DP2	28.6~30.4m
White	QA1	30.4~32.6m
Wille	QB1	32.6~34.9m
	QC2	34.9~37.2m
	QD2	37.2~39.8m
	RA1	39.8~42.5m
	RB1	42.5~45.3m
	RC2	45.3~48.4m
	RD2	48.4~51.7m
	SA3	51.7~55.2m
	SB3	55.2~58.9m
	SC4	58.9~62.4m
	SD4	62.4~67.2m

Luminous Intensity Measurement Allowance is ±7%

Color Ter	nperature			
Min.	Max.	Min.	Тур.	Max.
2750K	3750K	RD2	SA3	SB3
3750K	6750K	RB1	RC2	RD2
6750K	9500K	RD2	SA3	SB3

Vf Bin

Bin Code	Spec. Range			
H1	2.8-2.9V			
H2	2.9-3.0V			
Н3	3.0-3.1V			
H4	3.1-3.2V			
J1	3.2-3.3V			
J2	3.3-3.4V			
J3	3.4-3.5V			

Forward Voltage Measurement Allowance is ±0.05V

Part Number: 62-217BUW1C2

Color Rank

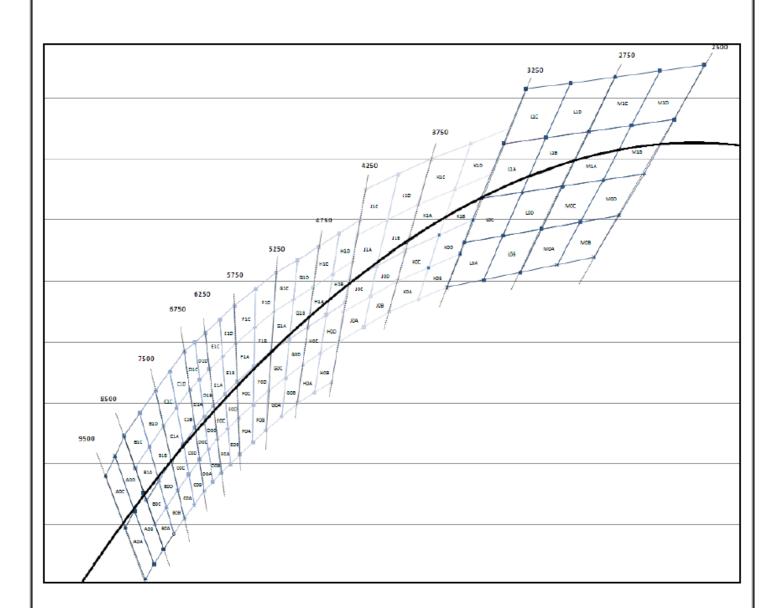
B0A ×	8000~8500K	B1A x	8000~8500K	B0B x	7500~8000k V	818 ×	7500~8000k	BOC ×	8000~8500k	81C ×	8000~8500k	B0D x	7500~8000k	B1D x	7500~8000
0.298	0.282	0.2915	0.298	0.302	0.287	0.29625	0.3045	0.2948	0.29	0.28725	0.30863	0.299125	0.29575	0.282625	0.31550
0.2948	0.29	0.28725	0.30883	0.299125	0.29575	0.292625	0.315585	0.2915	0.298	0.283	0.31928 0.32003	0.29825	0.3045	0.289	0.3266
0.299125	0.29575	0.292020	0.310000	0.3035	0.3015	0.298	0.3225 0.311	0.29020	0.3045	0.289	0.32003	0.301	0.311	0.250	0.334
0.298	0.282	0.2915	0.298	0.302	0.287	0.29625	0.3045	0.2948	0.29	0.28725	0.30863	0.299125	0.29575	0.252625	0.3155
			7000 74000		4710 7000/		6750~7000K	000					6750~7000K		0750~700
X A00	7000~7500K	C1A V	7000~7300K	COB Y	0/30~/000K	C1B ×	0/30~/000K	000 Y	7000~7500K	C1C ×	7000~7500K	COD	0130~1000K	C1D v	0/30~/00 V
0.308	0.292	0.301	0.311	0.30975	0.2965	0.3055	0.3165	0.3035	D.3015	0.298	0.3225	0.307625	0.3065	0.303	0.328
0.3035	0.3015	0.298	0.3225	0.307625	0.3065	0.303	0.3285	0.301	0.311	0.295	0.334	0.3055	0.3165	0.3005	0.340
0.307625	0.3065	0.303	0.3285	0.31175	0.3115	0.308	0.3345	0.3055	D.3185	0.3005	0.3405	0.31	0.322	0.308	0.347
0.30975	0.2965	0.3055	0.3165	0.3135	0.301 0.2965	0.31	0.322 0.3165	0.307825	0.3085 0.3016	0.303	0.3285	0.31175 0.307626	0.3115 0.3065	0.308	0.334
DOA V	8500-8750K	DIA	6500-6750K	DOB	6250-6500K	D1B	6250-6500K	DOC	8500-8750K	D1C	8500-8750K	DOD	6250-6500K	D1D	6250-650
X 0.3135	0.301	0.31	0.322	0.3167	0.304	0.3135	0.3265	0.31175	D.3116	0.308	0.3345	0.3151	0.31475	0.31176	0.337
0.31175	0.3115	0.308	0.3345	0.3151	0.31475	0.31175	0.33775	0.31	0.322	0.306	0.347	0.3135	0.3255	0.31	0.35
0.3151	0.31476	0.31175	0.33775	0.3185	0.318	0.3165	0.341	0.3135	0.3256	0.31	0.35	0.317	0.329	0.314	0.35
0.3157	0.304	0.3135	0.3255	0.32	0.307	0.317 0.3135	0.329 0.3255	0.3151 0.31176	0.31475 0.3115	0.31175	0.33775 0.3345	0.3185	0.318 0.31476	0.3155	0.34
0.5150		0.51	0.322	0.3107	0.004	0.3130	0.3200	0.31170	0.0110	0.300	0.3340	0.3101	0.51470		0.337
0A	8000K~8250K	E1A	6000K~8250K	EDB	5750×6000K	E18	6750×6000K	E0C	8000K-6250K	E1C	6000K~8250K	E0D	5750~6000K	E1D	5750~600
0.32	0.307	0.317	0.329	0.3235	0.31	0.3215	D.333	0.3185	0.318	0.3155	0.341	0.3225	0.3215	0.3205	0.345
0.32	0.307	0.317	0.329	0.3235	0.31	0.3215	0.333	0.3185	0.318	0.3155	0.341	0.3225	0.3215	0.3205	0.345
0.3225	0.3215	0.3205	0.34525	0.3225	0.3210	0.3255	0.34020	0.3215	0.323	0.3195	0.3575	0.3215	0.337	0.325	0.38
0.3235	0.31	0.3215	0.333	0.327	0.313	0.328	0.337	0.3225	0.3215	0.3205	0.34525	0.3265	0.325	0.3255	0.349
0.32	0.307	0.317	0.329	0.3235	0.31	0.3215	0.333	0.3185	0.318	0.3155	0.341	0.3225	0.3215	0.3205	0.345
OA.	5500~5750K	F1A	5500~5750K	FDB	5250~5500K	F18	5250~5500K	F0C	5500~5750K	F1C	5500~5750K	F0D	5250~5500K	F1D	5250~550
х	Y	X	У	X	У	х	Y	x	У	х	У	X	У	х	
0.327	0.313	0.326	0.337	0.332	0.317	0.3325	0.342	0.3285	0.325	0.3255	0.3495	0.33225	0.3295	0.33275	0.354
0.3265	0.325	0.3255	0.3495 0.35475	0.33225	0.3295	0.33275	0.35475	0.328	0.337	0.325	0.382	0.3325	0.342	0.333	0.387
0.33225	0.3295	0.33275	0.342	0.338	0.334 0.321	0.34 0.339	0.38 0.347	0.3325 0.33225	0.342 0.3295	0.333	0.3875 0.35475	0.339	0.347	0.34	0.37
0.327	0.313	0.326	0.337	0.332	0.317	0.3325	0.342	0.3265	0.325	0.3255	0.3495	0.33225	0.3295	0.33275	0.354
30A	5000K~5250K	GIA	5000K~5250K	GOR	4750-5000K	G1B	4750~5000K	GOC	5000K~5250K	G1C	5000K~5250K	GND	4750~5000K	G1D	4750~500
×	<u>500001~025011</u> Y	X	V	X X	4/30*3000K	V V	4730~3000K	×	3000K~3230K	V V	50000n~0230n	V V	4/30*3000K	GID	4/30~300
					1		Y	X	V		Y		Y		
0.337	0.321	0.338	0.347	0.343	0.3255	0.345	0.351	0.338	0.334	0.34	0.35	0.3445	0.33825	0.3475	
0.338	0.334	0.34	0.36	0.3445	0.33826	0.345 0.3475	0.351 0.364	0.338	0.347	0.34 0.341	0.35 0.373	0.348	0.351	0.349	0.377
0.338 0.3445	0.334 0.33825	0.34 0.3475	0.36	0.3445	0.33826 0.3425	0.345 0.3476 0.355	0.351 0.364 0.368	0.338 0.339 0.340	0.347	0.34 0.341 0.349	0.35 0.373 0.377	0.348	0.351 0.355	0.349 0.357	0.364 0.377 0.381
0.338	0.334	0.34	0.36	0.3445	0.33826	0.345 0.3475	0.351 0.364	0.338	0.347	0.34 0.341	0.35 0.373	0.348	0.351	0.349	0.377
0.338 0.3445 0.343	0.334 0.33825 0.3255	0.34 0.3475 0.348	0.38 0.304 0.351	0.3445 0.351 0.349	0.33826 0.3425 0.33	0.345 0.3475 0.355 0.353	0.351 0.364 0.368 0.355	0.338 0.339 0.340 0.3445	0.347 0.351 0.33825	0.34 0.341 0.349 0.3475	0.35 0.373 0.377 0.384	0.348 0.353 0.351	0.351 0.355 0.3425	0.349 0.357 0.355	0.377 0.381 0.388
0.338 0.3445 0.343 0.337	0.334 0.33825 0.3255 0.321	0.34 0.3475 0.348 0.338	0.36 0.304 0.351 0.347	0.3445 0.351 0.349 0.343	0.33826 0.3425 0.33 0.3265 4250~4500K	0.345 0.3475 0.355 0.353 0.345	0.361 0.364 0.368 0.355 0.351	0.338 0.339 0.340 0.3445 0.338	0.347 0.351 0.33825	0.34 0.341 0.349 0.3475 0.34	0.35 0.373 0.377 0.384	0.348 0.353 0.351 0.3445	0.351 0.355 0.3425 0.33825 4250~4500K	0.349 0.357 0.355 0.3475	0.37 0.38 0.36 0.30
0.338 0.3445 0.343 0.337	0.334 0.33825 0.3255 0.321 4500~4750K V	0.34 0.3475 0.348 0.339 H1A	0.36 0.304 0.351 0.347 4500~4750K	0.3445 0.351 0.349 0.343 H08	0.33826 0.3425 0.33 0.3255 4250~4500K V	0.340 0.3475 0.355 0.355 0.340	D.301 D.364 D.308 D.355 D.301	0.338 0.239 0.340 0.3445 0.338	0.347 0.351 0.33825 0.334 4500~4750K V	0.34 0.341 0.349 0.3475 0.34	0.36 0.273 0.377 0.384 0.30	0.348 0.353 0.351 0.3445 H0D	0.351 0.355 0.3425 0.33825 4250~4500K V	0.349 0.357 0.355 0.3475 H1D	0.37: 0.38: 0.38: 0.30- 4250-450
0.338 0.3445 0.343 0.337	0.334 0.33825 0.3255 0.321	0.34 0.3475 0.348 0.338	0.36 0.304 0.351 0.347	0.3445 0.351 0.349 0.343	0.33826 0.3425 0.33 0.3265 4250~4500K	0.345 0.3475 0.355 0.353 0.345	0.361 0.364 0.368 0.355 0.351	0.338 0.339 0.340 0.3445 0.338	0.347 0.351 0.33825 0.334	0.34 0.341 0.349 0.3475 0.34	0.35 0.373 0.377 0.384 0.35	0.348 0.353 0.351 0.3445	0.351 0.355 0.3425 0.33825 4250~4500K	0.349 0.357 0.355 0.3475	0.37 0.38 0.36 0.30 4250~450 V 0.3722
0.338 0.3445 0.343 0.337 HOA x 0.349 0.351 0.35775	0.334 0.33826 0.3255 0.321 4500~4750K V 0.33	0.34 0.3475 0.346 0.339 H1A × 0.353	0.36 0.304 0.351 0.347 4500×4750K V 0.355	0.3445 0.351 0.349 0.343 HDB × 0.3555	0.33825 0.3425 0.33 0.3255 4250-4500K V 0.3335	0.345 0.3475 0.355 0.353 0.340 H1B × 0.30	D.301 D.364 D.308 D.355 D.301 4250-4500K V D.309	0.338 0.339 0.340 0.3445 0.338 HOC x 0.351 0.353 0.36	0.347 0.351 0.3325 0.334 4500~4750K V 0.3425	0.34 0.341 0.349 0.3475 0.34 H1C x 0.355	0.36 0.273 0.377 0.384 0.30 4500~4750K V 0.308	0.348 0.353 0.351 0.3445 H0D × 0.35775	0.351 0.350 0.3425 0.33825 4250-4500K V 0.34025	0.349 0.357 0.355 0.3475 H1D x 0.3025	0.37 0.38 0.36 0.30 4250~450 V 0.3722 0.385
0.338 0.3445 0.343 0.337 HOA × 0.349 0.351 0.35775 0.3555	0.324 0.33825 0.3255 0.321 4500~4750K V 0.33 0.3425 0.34825 0.3336	0.34 0.3475 0.346 0.338 H1A x 0.353 0.365 0.365	0.36 0.304 0.351 0.347 4500~4750K 0.355 0.368 0.37225 0.359	0.3445 0.351 0.349 0.343 H0B × 0.3555 0.35775 0.3645 0.362	0.33826 0.3425 0.33 0.3255 4250~4500K V 0.3335 0.34625 0.35 0.35	D.345 0.3476 D.355 D.353 D.340 H1B × 0.30 0.3625 0.367	D.301 D.364 D.308 D.365 D.301 4250-4600K V D.305 D.37225 D.3705 D.3705	0.338 0.339 0.340 0.3445 0.338 H0C x 0.351 0.353 0.35775	0.347 0.351 0.33825 0.334 4500-4750K V 0.3425 0.355 0.355 0.34825	0.34 0.341 0.345 0.3475 0.34 H1G × 0.355 0.357 0.357 0.365 0.3625	0.36 0.273 0.377 0.384 0.30 4500~4750K V 0.308 0.381 0.3855 0.37225	0.348 0.353 0.351 0.3445 HOD × 0.35775 0.38 0.387 0.3645	0.351 0.300 0.2425 0.33825 4250~4500K V 0.34025 0.359 0.359	0.349 0.367 0.355 0.3475 H1D x 0.3025 0.385 0.373 0.37	0.37 0.38 0.36 0.30 4Z50~450 V 0.3722 0.385 0.39
0.338 0.3445 0.343 0.337 HOA x 0.349 0.351 0.35775	0.324 0.33826 0.3255 0.321 4500~4750K V 0.33 0.3425 0.34825	0.34 0.3470 0.348 0.339 H1A x 0.303 0.355 0.3625	0.38 0.304 0.351 0.347 4500×4750K V 0.355 0.368 0.37225	0.3445 0.351 0.349 0.343 HDB x 0.3555 0.35775	0.33825 0.3425 0.33 0.3260 4250~4500K V 0.3335 0.34625 0.35	D.345 0.3476 0.350 0.353 0.340 H1B x 0.35 0.3625 0.37	0.361 0.364 0.368 0.355 0.361 4250-4500K V 0.368 0.3725 0.3785	0.338 0.339 0.340 0.3445 0.338 HOC x 0.351 0.353 0.36	0.247 0.301 0.33825 0.334 4500~4750K V 0.3425 0.355 0.355	0.34 0.341 0.349 0.3475 0.34 H1C x 0.355 0.357	0.35 0.273 0.377 0.384 0.30 4500-4750K V 0.308 0.381 0.3855	0.348 0.353 0.351 0.3445 H0D × 0.35775 0.36 0.387	0.351 0.350 0.3425 0.33825 4250~4500K V 0.34025 0.359 0.383	0.349 0.307 0.355 0.3475 H1D x 0.3025 0.385 0.373	0.37 0.38 0.36 0.30 4Z50~450 V 0.372 0.385 0.39
0.338 0.3440 0.343 0.337 HOA × 0.349 0.3517 0.35775 0.3555 0.349	0.33826 0.3285 0.3285 0.321 4500~4750K V 0.33 0.3425 0.3425 0.3425 0.3335 0.3335	0.34 0.3475 0.348 0.339 H1A x 0.303 0.355 0.3625 0.3625 0.363	0.38 0.304 0.351 0.347 4500-4750K V 0.350 0.388 0.31225 0.359 0.355 4000-4250K	0.3445 0.351 0.349 0.343 HDB x 0.3555 0.35775 0.3945 0.362 0.3555	0.3325 0.3420 0.3250 0.3250 4250-4500K 7 0.3355 0.34625 0.3625 0.35 0.337 0.3325	0.345 0.3475 0.353 0.353 0.340 H1B × 0.30 0.3625 0.37 0.367 0.38	D.351 D.364 D.368 D.368 D.365 D.361 4250-4500K V D.3725 D.3725 D.3725 D.3725 D.3725 D.3725 D.3725 D.3725 D.3765 D.368	0.338 0.339 0.340 0.3445 0.338 HOC × 0.351 0.353 0.36 0.35775 0.351	0 347 0 331 0 3325 0 334 4500-4750K V 0 3425 0 355 0 355 0 34625 0 3425	0.34 0.341 0.345 0.3475 0.3475 0.3475 0.3475 0.357 0.355 0.365 0.3625 0.355	0.35 0.373 0.377 0.384 0.30 4500-4700K V 0.308 0.381 0.3855 0.37225 0.288	0.348 0.303 0.351 0.3440 × 0.30775 0.36 0.367 0.3645 0.35775	0.351 0.305 0.3425 0.33825 4250-4900K V 0.34025 0.359 0.359 0.34525 2750-4900K	0.349 0.307 0.355 0.3470 H1D x 0.3025 0.385 0.373 0.37 0.3825	0.27 0.38 0.38 0.30 4250-450 V 0.372: 0.385 0.39 0.372: 3750-400
0.338 0.3440 0.343 0.337 10A × 0.345 0.351 0.35775 0.349 0.349	0.334 0.33825 0.3255 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.335 0.335 0.335	0.34 0.3475 0.3475 0.348 0.339 H1A x 0.353 0.355 0.3625 0.38 0.353	0.38 0.304 0.351 0.347 4500-4750K V 0.350 0.368 0.37225 0.359 0.355 4900-4250K V	0.2445 0.301 0.349 0.343 H08 × 0.3505 0.36775 0.3645 0.362 0.3555 J08	0.3325 0.3425 0.33 0.3255 4250-4500K V 0.3335 0.34625 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.3	D.345 D.3475 D.350 D.363 D.340 H1B × D.30 D.340 0.30 D.340 0.30 D.340 D.3	0.301 0.364 0.368 0.365 0.365 0.301 4250-4500K V 0.339 0.37225 0.3765 0.383 0.383 0.389	0.338 0.339 0.340 0.3445 0.338 H0C x 0.351 0.353 0.367 0.351	0 347 0 331 0 33825 0 334 4500~4750K V 0 3425 0 355 0 355 0 355 0 3426 4000~4250K V	0.34 0.341 0.349 0.3475 0.3475 0.3475 0.350 0.357 0.365 0.365 0.365 0.365	0.36 0.373 0.377 0.384 0.30 4500-4750K V 0.308 0.381 0.3855 0.37225 0.368	0.248 0.303 0.351 0.3445 HIGD × 0.35775 0.36 0.387 0.3875 0.38775 V	0.351 0.350 0.3425 0.33825 4250-4500K V 0.34025 0.359 0.383 0.35 0.34525	0.349 0.367 0.355 0.3475 H1D x 0.3025 0.365 0.373 0.375 0.3825	0.37 0.38 0.38 0.30 4250-450 V 0.372 0.385 0.39 0.376 0.3723
0.338 0.3445 0.343 0.337 HOA × 0.349 0.3575 0.3575 0.349 0.349	0.334 0.33826 0.3255 0.321 4500~4750K V 0.33 0.3425 0.34625 0.34625 0.3335 0.3425 0.3335 0.3425 0.3335	0.34 0.3475 0.3476 0.348 0.339 H1A x 0.355 0.365 0.365 0.365 0.365 0.363	0.38 0.304 0.361 0.361 0.347 4300-4750K V 0.355 0.358 0.37225 0.359 0.355 4300-4250K V 0.37	0.2445 0.351 0.349 0.343 HDB × 0.3505 0.35775 0.3645 0.362 0.3555 JDB × 0.37425	0 33825 0.3420 0 33 0.3250 4250-4500K V 0.335 0.34625 0.35 0.337 0.3325 3750-4000K V 0.3535	0.345 0.3475 0.3475 0.363 0.363 0.340 H1B × 0.30 0.3625 0.37 0.367 0.367	D.351 D.364 D.368 D.365 D.365 D.361 4250-4500K V D.368 D.3725 D.37785 D.3785	0.338 0.339 0.345 0.3445 0.351 0.351 0.353 0.36 0.3575 0.351	0 347 0 331 0 33825 0 334 4500-4750K V 0 3425 0 355 0 355 0 34625 0 3425 4000-4250K V V 0 3425	0.34 0.341 0.345 0.347 0.347 0.347 0.357 0.357 0.355 0.355 0.355 0.355 0.355	0.36 0.373 0.377 0.384 0.30 4500-4750K V 0.308 0.381 0.385 0.37225 0.389 4000-4250K V 0.388	0.348 0.353 0.351 0.3445 0.35775 0.36775 0.36 0.38775 0.3845 0.35775	0.351 0.350 0.3425 0.33825 4250~4500K V 0.34525 0.359 0.359 0.359 0.34825 3750~4000K V 0.34825	0.349 0.357 0.355 0.3475 0.3475 0.3025 0.365 0.373 0.37 0.3825 0.3825	0.37 0.38 0.36 0.30 4250-450 V 0.3725 0.385 0.376 0.3760-400 V 0.3723
0.338 0.3440 0.343 0.337 10A × 0.345 0.351 0.35775 0.349 0.349	0.334 0.33825 0.3255 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.335 0.335 0.335	0.34 0.3475 0.3475 0.348 0.339 H1A x 0.353 0.355 0.3625 0.38 0.353	0.38 0.304 0.351 0.347 4500-4750K V 0.350 0.368 0.37225 0.359 0.355 4900-4250K V	0.2445 0.301 0.349 0.343 H08 × 0.3505 0.36775 0.3645 0.362 0.3555 J08	0.3325 0.3425 0.33 0.3255 4250-4500K V 0.3335 0.34625 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.3	D.345 D.3475 D.350 D.363 D.340 H1B × D.30 D.340 0.30 D.340 0.30 D.340 D.3	0.301 0.364 0.368 0.365 0.365 0.301 4250-4500K V 0.339 0.37225 0.3765 0.383 0.383 0.389	0.338 0.339 0.340 0.3445 0.338 H0C x 0.351 0.353 0.367 0.351	0 347 0 331 0 33825 0 334 4500~4750K V 0 3425 0 355 0 355 0 355 0 3426 4000~4250K V	0.34 0.341 0.349 0.3475 0.3475 0.3475 0.350 0.357 0.365 0.365 0.365 0.365	0.36 0.373 0.377 0.384 0.30 4500-4750K V 0.308 0.381 0.3855 0.37225 0.368	0.248 0.303 0.351 0.3445 HIGD × 0.35775 0.36 0.387 0.3875 0.38775 V	0.351 0.350 0.3425 0.33825 4250-4500K V 0.34025 0.359 0.383 0.35 0.34525	0.349 0.367 0.355 0.3475 H1D x 0.3025 0.365 0.373 0.375 0.3825	0.37 0.38 0.36 0.30 4250-450 V 0.3725 0.395 0.376 0.3760-400 V 0.3725 0.395 0.3760-400
0.338 0.3445 0.343 0.337 10A X 0.345 0.345 0.35775 0.349 0.349 0.349 0.35775 0.349 0.349 0.35775 0.349 0	0.334 0.33825 0.3255 0.321 4500~4750K Y 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.335 0.335 0.30 0.35 0.35	0.34 0.3470 0.348 0.339 H1A x 0.353 0.355 0.365 0.365 0.365 0.353 J1A x 0.3685 0.3685 0.37170	0.38 0.304 0.351 0.347 4500×4750K V 0.350 0.352 0.352 0.359 0.355 4000×4250K V V 0.37 0.355	0.2445 0.351 0.369 0.343 0.343 0.3505 0.35775 0.3045 0.3622 0.3555 0.37425 0.37425 0.37070	0.3325 0.3425 0.325 0.33 0.3255 4250~4500K V 0.335 0.34625 0.35 0.337 0.3395 2750~4000K V 0.355 0.305 0.305 0.305	0.345 0.3475 0.3670 0.353 0.353 0.340 H1B x 0.30 0.3025 0.37 0.367 0.38 J1B x 0.27925 0.33370	D.351 D.364 D.368 D.365 D.365 D.361 4250-4900K V D.309 D.3725 D.3765 D.3765 D.3765 D.363	0.338 0.339 0.340 0.3445 0.338 HOC X 0.351 0.351 0.351 0.357 0.351 0.351 0.351 0.351 0.351 0.351	0 347 0 331 0 33425 0 334 4500-4750K V 0 3425 0 355 0 34625 0 3425 4000-4250K V V 0 3425	0.34 0.241 0.243 0.3475 0.3475 0.34 H1C x 0.355 0.357 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365	0.35 0.373 0.377 0.384 0.30 4500-4750K V 0.308 0.381 0.3855 0.37225 0.389 4000-4250K V 0.385 0.385	0.348 0.353 0.351 0.3445 0.35775 0.36775 0.36 0.38775 0.3845 0.35775	0.351 0.350 0.3425 0.33825 0.33825 4250~4500K V 0.34025 0.359 0.359 0.35 0.34826 2750~400K V 0.34826 3750~400K	0.349 0.367 0.355 0.3470 H1D x 0.3055 0.3475 3.0373 0.373 0.375 0.3825	0.37 0.38 0.38 0.38 0.30 4250-450 V 0.3722 0.385 0.376 0.3722 3760-400 V 0.39 0.402
0.328 0.3440 0.343 0.337 O.337 O.351 0.3575 0.3555 0.349 O. 0.35775 0.3555 0.349 O. 0.35775 0.3575 0.3575 0.37675	0.334 0.33825 0.3255 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.39 4000-4250K V 0.35 0.30 0.385	0.34 0.3470 0.348 0.338 0.338 0.353 0.355 0.365 0.365 0.365 0.363 0.363 0.363 0.363 0.363 0.363 0.363	0.38 0.304 0.351 0.347 4500-4750K V 0.350 0.358 0.31225 0.359 0.355 4000-4250K V 0.355	0.3445 0.351 0.343 0.343 HDB x 0.3505 0.35775 0.3645 0.3655 JDB X 0.37425 0.37425 0.3767	0 33825 0 3426 0 33 0 3255 4250-4500K V 0 3335 0 34625 0 35 0 34625 0 35 0 3750-4000K V 0 3337 0 3335	0.345 0.3475 0.3625 0.363 0.363 0.3640 H1B x 0.30 0.3625 0.377 0.38 J1B x 0.37925 0.37925 0.383370 0.383370	0.301 0.364 0.368 0.365 0.365 0.301 4250-4000K V 0.309 0.37225 0.3765 0.383 0.383 0.389 3750-4000K V 0.309 0.375 0.375 0.375 0.375	0.338 0.339 0.340 0.3445 0.338 H0C x 0.351 0.353 0.367 0.351 0.253 0.361 J0C x 0.3665 0.37925	0 347 0 331 0 33825 0 334 4000-4750K V 0 3425 0 355 0 355 0 3425 4000-4250K V 0 3425 0 3425	0.34 0.341 0.345 0.3475 0.3475 0.34 H1C x 0.350 0.357 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625	0.36 0.373 0.377 0.384 0.30 4500-4750K V 0.308 0.381 0.3055 0.3055 0.3055 0.3055 0.3055 0.3055 0.3055 0.3055 0.3055	0.348 0.353 0.351 0.351 0.3440 0.30775 0.36 0.30775 0.36 0.36775 0.3775 0.3775 0.3775	0.351 0.350 0.3425 0.33825 4250-4500K V 0.34025 0.359 0.363 0.35 0.34825 3750-4000K V 0.385 0.375 0.383	0.349 0.357 0.355 0.3470 H1D x 0.3020 0.365 0.373 0.3825 J1D x 0.383375 0.3875 0.49	0.97 0.38 0.38 0.30 4250~450 0.3722 0.385 0.39 0.376 0.3722 3750~400 Y 0.39 0.40 0.41
0.328 0.3445 0.342 0.343 0.337 HOA 0.345 0.351 0.35775 0.349 OA X 0.2645 0.369 0.37675 0.37675 0.37425 0.3645	0.334 0.33825 0.3255 0.321 4500~4750K Y 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.335 0.335 0.30 0.35 0.35	0.34 0.3470 0.348 0.338 0.338 0.353 0.355 0.365 0.365 0.365 0.363 0.363 0.363 0.363 0.363 0.363 0.363	0.38 0.304 0.351 0.347 4500-4750K V 0.350 0.358 0.31225 0.359 0.355 4000-4250K V 0.355	0.3445 0.351 0.343 0.343 HDB x 0.3505 0.35775 0.3645 0.3655 JDB X 0.37425 0.37425 0.3767	0.3325 0.3425 0.325 0.33 0.3255 4250~4500K V 0.335 0.34625 0.35 0.337 0.3395 2750~4000K V 0.355 0.305 0.305 0.305	0.345 0.3475 0.3625 0.363 0.363 0.3640 H1B x 0.30 0.3625 0.377 0.38 J1B x 0.37925 0.37925 0.383370 0.383370	0.301 0.364 0.368 0.365 0.365 0.301 4250-4000K V 0.309 0.37225 0.3765 0.383 0.383 0.389 3750-4000K V 0.309 0.375 0.375 0.375 0.375	0.338 0.339 0.340 0.3445 0.338 HOC X 0.351 0.351 0.351 0.357 0.351 0.351 0.351 0.351 0.351 0.351	0 347 0 331 0 33825 0 334 4000-4750K V 0 3425 0 355 0 355 0 3425 4000-4250K V 0 3425 0 3425	0.34 0.341 0.345 0.3475 0.3475 0.34 H1C x 0.350 0.357 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625 0.3625	0.36 0.373 0.377 0.384 0.30 4500-4750K V 0.308 0.381 0.3055 0.3055 0.3055 0.3055 0.3055 0.3055 0.3055 0.3055 0.3055	0.348 0.353 0.351 0.351 0.3440 0.30775 0.36 0.30775 0.36 0.36775 0.3775 0.3775 0.3775	0.351 0.350 0.3425 0.33825 0.33825 4250~4500K V 0.34025 0.359 0.359 0.35 0.34826 2750~400K V 0.34826 3750~400K	0.349 0.357 0.355 0.3470 H1D x 0.3020 0.365 0.373 0.3825 J1D x 0.383375 0.3875 0.49	0.37 0.38 0.38 0.38 0.39 0.30 0.37 0.37 0.37 0.37 0.37 0.37 0.37
0.328 0.3445 0.342 0.337 1GA	0.334 0.3825 0.3255 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.335 0.33 4000-4250K V 0.35 0.365 0.365 0.365 0.355 0.355 0.355	0.34 0.347 0.348 0.335 0.353 0.355 0.355 0.365 0.365 0.365 0.363 0.37170 0.383375 0.37170 0.383375	0.38 0.304 0.351 0.347 4500-4750K V 0.350 0.388 0.37225 0.359 0.355 4000-4250K V 0.37 0.383 0.3725 0.37 0.383 0.375 0.37	0.2445 0.351 0.349 0.343 H08 0.3505 0.35775 0.3052 0.35775 0.3052 0.3725 0.37425 K08 K08	0 33925 0 3420 0 33 0 3255 4250-4500K V 0 3335 0 34625 0 35 0 34625 0 35 0 337 0 3395 3750-4000K V 0 3537 0 3395 3750-4000K V 0 355 0 365 0 36	0.345 0.3476 0.3476 0.3670 0.3693 0.3625 0.370 0.380 J1B X 0.27925 0.33370 0.395 0.395 0.395 0.395 0.37925	D.351 D.364 D.368 D.368 D.365 D.361 4250-4400K V D.309 D.3725 D.3765 D.	0.338 0.319 0.340 0.345 0.338 HOC x 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.365 0.3665 0.3665 XCC X	0 347 0 3301 0 33325 0 3344 4500-4750K V 0 3425 0 355 0 359 0 34625 0 34625 4000-4250K V 0 347 0	0.34 0.241 0.243 0.3475 0.3475 0.34 H1C x 0.355 0.357 0.365 0.3655 0.3655 0.3655 0.3675 0.37175 0.37175 0.3875 0.3875 0.3875 0.3875 0.3875 0.3875	0.35 0.373 0.373 0.377 0.384 0.30 4500-4750K V 0.308 0.381 0.3855 0.37225 0.289 4000-4250K V 0.395 0.405 0.39 0.395	0.348 0.353 0.351 0.3440 H0D x 0.30775 0.36 0.30775 0.36 0.35775 J0D x 0.37675 0.37925 0.37925 0.37925	0.351 0.350 0.3425 0.33825 4250-4500K V 0.34925 0.359 0.363 0.34825 2750-4000K V 0.385 0.375 0.385 0.375 0.385	0.249 0.307 0.355 0.3470 H1D x 0.3025 0.365 0.373 0.3825 J1D x 0.382375 0.4 0.383375 0.4 0.383375	0.37 0.38 0.38 0.30 0.30 0.30 0.37
0.328 0.3445 0.342 0.342 0.337 10A X 0.345 0.351 0.35775 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349	0.33420 0.33825 0.3255 0.3211 4500~4750K V 0.33 0.3425 0.34625 0.335 0.33 4000~4250K V 0.35 0.30 0.35 0.35 0.35	0.34 0.3470 0.348 0.3470 0.348 0.338 H1A 0.353 0.355 0.365 0.365 0.365 0.365 0.37925 0.37925 0.38375 0.37925 0.3685	0.38 0.304 0.351 0.347 0.347 0.347 0.350 0.350 0.358 0.3728 0.355 0.359 0.355 4900-4250K V 0.37 0.389 0.375 0.389 0.375 0.385 0.375 0.385	0.3445 0.351 0.343 0.343 0.343 0.3505 0.35775 0.3645 0.3525 0.3555 JOB X 0.37425 0.3646 0.37425 0.3646 0.37425 0.3840 0.37425	0 33825 0 3425 0 33 0 3255 4250-4500K V 0 3335 0 34625 0 35 0 34625 0 35 0 3935 3750-4000K V 0 3337 0 3935 0 3935 0 395 0 39	0.345 0.3476 0.3476 0.367 0.360 0.353 0.340 H1B x 0.30 0.302 0.302 0.302 0.303 0.3	D.351 D.364 D.368 D.365 D.361 4250~4500K V D.358 D.3725 D.3796 D.383 D.359 2750~4000K V D.375 D.395	0.338 0.339 0.340 0.3445 0.351 0.351 0.351 0.351 0.353 0.3575 0.351 0.365 0.37975 0.37975 0.37975 0.3865	0 347 0 331 0 33825 0 334 4500-4750K V 0 3425 0 355 0 355 0 355 0 3425 4000-4250K V 0 3425 0 3425 0 3425 0 3425 V 0 3425 0 3	0.34 0.241 0.243 0.2475 0.342 0.2475 0.34 H1C x 0.355 0.365 0.365 0.365 0.365 0.365 0.37175 0.37175 0.3875 0.38375 0.38375 0.3875 0.38375 0.38375 0.38375	0.36 0.373 0.377 0.384 0.30 4500~4750K V 0.308 0.381 0.385 0.37225 0.269 4000~4250K V 0.395 0.4 0.405 0.39 0.385	0.348 0.303 0.351 0.351 0.3440 W 0.30775 0.36 0.36775 JOD X 0.37875 0.37975 0.37975 0.37975 0.37975 0.37975	0.351 0.350 0.3425 0.33825 4250-4500K V 0.34025 0.359 0.935 0.359 0.935 0.34825 3750-4000K V 0.365 0.375 0.385 0.375 0.385 0.385	0.349 0.357 0.355 0.3470 H1D x 0.3020 0.365 0.373 0.3825 J1D x 0.383375 0.383375 K1D x 0.409	0.27 0.38 0.38 0.36 0.30 4250-450 V 0.3722 0.385 0.39 0.3760-400 V 0.3722 3750-400 V 0.39 0.
0 328 0 3445 0 342 0 347 0 343 0 345 0 345 0 345 0 351 0 3575 0 3555 0 349 0 3 0 364 0 3 0 364 0 3 0 364 0 3 0 364	0.33826 0.33826 0.3285 0.3211 4500~4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3335 0.3425 0.335 0.335 0.35 0.35 0.35 0.365 0.35 0.35 0.35 0.365 0.37	0.34 0.347 0.347 0.348 0.335 H1A x 0.355 0.365 0.365 0.365 0.363 0	0.38 0.304 0.351 0.347 4500>4750K V 0.355 0.359 0.359 0.359 0.359 0.359 0.359 0.359 0.359 0.375 0.385 0.37 0.385 0.37 0.385 0.37 0.385	0.2445 0.351 0.343 HOB x 0.3505 0.343 HOB x 0.3505 0.362 0.362 0.362 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425	0.3325 0.3425 0.3425 0.33 0.3250 4250-4500K V 0.3335 0.34625 0.35 0.337 0.3335 0.34625 0.355 0.337 0.3335 0.3455 0.305 0.37 0.305 0.37 0.305 0.37 0.305 0.37 0.305 0.37 0.305	0.345 0.3476 0.3476 0.3670 0.363 0.363 0.340 H1B x 0.30 0.3625 0.367 0.38 J1B x 0.37925 0.39370 0.395 0.395 0.395 0.395 0.37925 K1B x 0.403 0.403	D.351 D.364 D.368 D.365 D.361 4250-4500K V D.365 D.3725 D.3765 D.37765 D.3765 D.3765 D.375 D.3765 D.375 D.375 D.395 D.3	0.338 0.339 0.340 0.3445 0.338 HOC X 0.351 0.351 0.353 0.367 0.361 0.361 0.361 0.365 0.365 0.365 0.365 0.365 0.365 0.3705 0.365 0.365	0 347 0 331 0 33225 0 334 4500-4750K V 0 3425 0 355 0 34525 0	0.34 0.241 0.243 0.343 0.3475 0.3475 0.34 H1C x 0.3550 0.357 0.365 0.3655 0.3655 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175	0.35 0.373 0.377 0.384 0.30 4500-4750K V 0.308 0.381 0.3955 0.37225 0.288 4000-4250K V 0.385 0.4 0.405 0.39 0.385 3500-3700K V 0.385 0.41	0.348 0.353 0.351 0.3440 X 0.30775 0.36 0.38775 0.38775 0.37875 0.37875 0.37875 0.37875 0.38775 0.38775 0.38775 0.38775 0.38775 0.38775 0.38775 0.38775 0.38775 0.38775	0.351 0.350 0.3425 0.33825 4250-4500K V 0.34025 0.359 0.359 0.369 0.369 0.369 0.375 0.385 0.375 0.385 0.375 0.385 0.3745 0.385	0.349 0.357 0.385 0.3470 HID X 0.3025 0.385 0.377 0.385 0.373 0.375 0.373 0.38375 0.4 0.393 0.39375 0.4 0.393 0.38375 0.4 0.400 0.415	0.37 0.38 0.38 0.30 0.30 0.30 0.37 0.372 0.385 0.376 0.372 9760-400 V 0.41 0.39 0.39 0.39 0.39 0.40 0.40 0.41 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.39
0.338 0.3445 0.342 0.343 0.337 HOA X 0.345 0.351 0.35775 0.3645 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349 0.349	0.33420 0.33825 0.3255 0.3211 4500~4750K V 0.33 0.3425 0.34625 0.335 0.33 4000~4250K V 0.35 0.30 0.35 0.35 0.35	0.34 0.3470 0.348 0.3470 0.348 0.338 H1A 0.353 0.355 0.365 0.365 0.365 0.365 0.37925 0.37925 0.38375 0.37925 0.3685	0.38 0.304 0.351 0.347 0.347 0.347 0.350 0.350 0.358 0.3728 0.355 0.359 0.355 4900-4250K V 0.37 0.389 0.375 0.389 0.375 0.385 0.375 0.385	0.3445 0.351 0.343 0.343 0.343 0.3505 0.35775 0.3645 0.3525 0.3555 JOB X 0.37425 0.3646 0.37425 0.3646 0.37425 0.3840 0.37425	0 33825 0 3425 0 33 0 3255 4250-4500K V 0 3335 0 34625 0 35 0 34625 0 35 0 3935 3750-4000K V 0 3337 0 3935 0 3935 0 395 0 39	0.345 0.3476 0.3476 0.367 0.360 0.353 0.340 H1B x 0.30 0.302 0.302 0.302 0.303 0.3	D.351 D.364 D.368 D.365 D.361 4250~4500K V D.358 D.3725 D.3796 D.383 D.359 2750~4000K V D.375 D.395	0.338 0.339 0.340 0.3445 0.351 0.351 0.351 0.351 0.353 0.3575 0.351 0.365 0.37975 0.37975 0.37975 0.3865	0 347 0 331 0 33825 0 334 4500-4750K V 0 3425 0 355 0 355 0 355 0 3425 4000-4250K V 0 3425 0 3425 0 3425 0 3425 V 0 3425 0 3	0.34 0.241 0.243 0.2475 0.342 0.2475 0.34 H1C x 0.355 0.365 0.365 0.365 0.365 0.365 0.37175 0.37175 0.3875 0.38375 0.38375 0.3875 0.38375 0.38375 0.38375	0.36 0.373 0.377 0.384 0.30 4500~4750K V 0.308 0.381 0.385 0.37225 0.269 4000~4250K V 0.395 0.4 0.405 0.39 0.385	0.348 0.303 0.351 0.351 0.3440 W 0.30775 0.36 0.36775 JOD X 0.37875 0.37975 0.37975 0.37975 0.37975 0.37975	0.351 0.350 0.3425 0.33825 4250-4500K V 0.34025 0.359 0.935 0.359 0.935 0.34825 3750-4000K V 0.365 0.375 0.385 0.375 0.385 0.385	0.349 0.357 0.355 0.3470 H1D x 0.3020 0.365 0.373 0.3825 J1D x 0.383375 0.383375 K1D x 0.409	0.37 0.38 0.38 0.30 0.30 0.30 0.37 0.37 0.35 0.37 0.37 0.37 0.39 0.40 0.41 0.39 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4
0.328 0.3445 0.3445 0.342 0.337 HGA x 0.345 0.3575 0.349 OA X 0.3575 0.349 OA X 0.3655 0.349 OA OA OA OA OA OA OA OA OA O	0.334 0.33825 0.3255 0.3211 4500-4750K V 0.333 0.3475 0.3425 0.3425 0.335 0.33 4000-4250K V 0.35 0.30 0.365 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.3745	0.34 0.347 0.347 0.348 0.335 0.353 0.355 0.365 0.365 0.365 0.363 0.37170 0.383375 0.37925 0.37925 0.37925 0.37925 0.37925 0.3895	0.38 0.304 0.351 0.347 4500-4750K V 0.350 0.388 0.37225 0.359 0.355 4000-4250K V 0.37 0.380 0.37 0.383 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.37 0.385 0.37 0.37 0.37 0.385 0.37 0.37 0.37 0.37 0.37 0.385 0.37	0.2445 0.351 0.349 0.343 H08 0.3505 0.35775 0.3042 0.3555 J08 0.3745 0.3745 0.37425 K0B × 0.3550 0.399 0.411	0.3325 0.3420 0.33 0.3250 4250-4500K V 0.3335 0.34525 0.34525 0.35 0.35 0.337 0.3335 3750-4000K V 0.35 0	0.345 0.3476 0.3476 0.3670 0.3603 0.3625 0.370 0.380 J1B X 0.27925 0.38376 0.395 0.37925 K1B X 0.403 0.403 0.4028	D.351 D.364 D.368 D.368 D.365 D.365 D.365 D.3725 D.3765 D.395	0.338 0.319 0.340 0.340 0.3445 0.338 0.351 0.351 0.351 0.353 0.365 0.35775 0.351 0.365 0.37925	0 347 0 331 0 33325 0 334 4500-4750K V 0 3425 0 355 0 355 0 3452 0 3425 4000-4250K V 0 3425 0 345 0 345 0 345 3 0 345 0	0.34 0.241 0.243 0.3475 0.3475 0.34 H1G x 0.355 0.357 0.365 0.357 0.365 0.357 0.367 0.37175 0.37175 0.37175 0.38175 0.38175 0.38175 0.38175 0.38175 0.38175 0.38175 0.38175 0.38175 0.38175 0.38175	0.35 0.373 0.377 0.384 0.30 4500-4750K V 0.308 0.381 0.3855 0.37225 0.389 4000-4250K V 0.395 0.4 0.405 0.395 0.395 0.405 0.395 0.405 0.395 0.405 0.405 0.395 0.405 0	0.348 0.353 0.351 0.3440 HOD X 0.30775 0.36 0.30775 0.36 0.35775 JOD X 0.37675 0.37925 0.37925 0.37925 0.37925 0.399 0.37675	0.351 0.350 0.3425 0.33825 0.33825 0.33825 0.34925 0.359 0.370 0.385 0.370 0.385 0.377 0.385 0.377 0.385 0.374 0.385	0.349 0.357 0.355 0.3470 H1D x 0.3025 0.365 0.373 0.3825 J1D x 0.383375 0.4 0.383375 0.483375 0.485 0.485 0.495 0.415 0.415 0.415	0.27 0.38 0.386 0.300 4250-450 V 0.3722 0.385 0.395 0.376 0.375 0.376 0.375 0.395 0.376 0.375 0.395 0.
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0.328 0.3445 0.342 0.342 0.337 HGA 0.343 0.35775 0.349 OA 0.35775 0.349 OA 0.3645 0.3645 OA 0.3645 OA 0.3645 OA OA OA OA OA OA OA OA	0.33420 0.33826 0.3255 0.321 4500~4750K V 0.33 0.3475 0.3425 0.3335 0.3425 0.3335 0.3455 0.335 0.335 0.335 0.335 0.305 0.365 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355	0.34 0.347 0.347 0.348 0.339 H1A x 0.353 0.355 0.365 0.365 0.365 0.363	0.38 0.304 0.351 0.347 4500~4750K V 0.355 0.355 0.359 0.355 4000~4250K V 0.355 4000~4250K V 0.37 0.385 0.37 0.37 0.385 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.37 0.385 0.39 0.37 0.385 0.39 0.37 0.385 0.39 0.4 0.385	0.2445 0.351 0.349 0.343 HOB x 0.3005 0.35775 0.3645 0.3625 0.37725 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425	0.3325 0.3425 0.3425 0.33 0.3255 4250-4500K V 0.3335 0.34525 0.35 0.337 0.3395 3750-4000K V 0.3335 0.34525 0.3	0.345 0.3476 0.3476 0.3476 0.350 0.350 0.3523 0.340 H1B x 0.350 0.3525 0.357 0.387 0.387 0.395	D.351 D.364 D.368 D.368 D.365 D.361 4250-4500K V D.355 D.3725 D.3725 D.3725 D.383 D.385 D.375 D.395 D.375 D.395 D.375 D.395 D.385 D.375	0.338 0.339 0.340 0.3445 0.338 0.351 0.351 0.351 0.353 0.35715 0.365 0.3650 0.37975 0.3665 KOC x 0.381 0.399 0.403 0.399 0.403 0.399 0.403	0 347 0 331 0 33225 0 334 4500-4750K V 0 3425 0 3425 0 3455 0 3425 4000-4250K V 0 375 0 375 0 375 0 375 0 375 0 385 0 385 0 375 0 3775 0 37	0.34 0.241 0.243 0.3475 0.3475 0.3475 0.3475 0.3475 0.3475 0.355 0.355 0.355 0.357 0.355 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175	0.35 0.373 0.377 0.384 0.30 4500-4700K V 0.308 0.381 0.3085 0.37225 0.388 4000-4250K V 0.385 0.37225 0.385 0.41 0.405 0.395 0.395 0.41 0.415 0.41 0.415 0.415 0.41 0.415 0.415 0.41 0.415	HOD × 0.3645 0.36775 0.3675 0.3775 0.3775 0.389 0.3775 0.3775 0.389 0.3775 0.37925 0.3	0.351 0.350 0.3425 0.3425 0.33825 4250-4500K V 0.34025 0.359 0.359 0.35 0.345 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.385 0.375 0.377 0.385 0.377 0.385 0.379 0.379 0.379 0.3745 0.379 0.3745	0.349 0.357 0.355 0.375 0.365 0.375 0.375 0.375 0.375 0.375 0.375 0.3825 J1D X 0.38375 0.4 0.593 0.38375 KID X 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403	0.27 0.38 0.38 0.38 0.30 0.30 0.37 0.372 0.375 0.372 3760-400 0.41 0.42 0.42 0.42 0.42 0.42 0.42 0.42 0.42 0.42 0.42
0.328 0.34445 0.343 0.347 0.337 10A	0.334 0.33825 0.3255 0.321 4500-4750K V 0.33 0.3475 0.3425 0.3425 0.3335 0.33 4000-4250K V 0.35 0.30 0.365	0.34 0.347 0.348 0.339 H1A 0.353 0.355 0.355 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.37170 0.383375 0.37925 0.37925 0.37925 0.390390 0.403 0.390 0.403 0.390	0.38 0.304 0.351 0.347 4500-4750K V 0.355 0.388 0.37225 0.359 0.355 4000-4250K V 0.37 0.385 0.37 0.37 0.385 0.37 0.385 0.37 0.37 0.385 0.39 0.39 0.37 0.385 0.37 0.385 0.39 0.39 0.39 0.37 0.385 0.39 0	0.2445 0.351 0.349 0.343 H08 0.3505 0.35775 0.3052 0.35775 0.3052 0.3555 J08 x 0.37425 0.37425 0.3955 L00 x 0.41250 0.41250	0 33825 0 3420 0 33 0 33 0 3255 4250-4500K V 0 3335 0 34625 0 35 0 34625 0 35 0 337 0 3395 3750-4000K V 0 355 0 365 0 37 0 39 0 365 0 37 0 39 0 365 0 37 0 39 0 365 0 37 0 39 0 365 0 37 0 39 0 365 0 37 0 39 0 365 0 37 0 39 0 365 0 37 0 39 0 365 0 37 0 39 0 365 0 37 0 39 0 365 0 37 0 39 0 385 0 366 0 37 0 39 0 385 0 366 0 37 0 39 0 385 0 386 0 38	0.345 0.3476 0.3476 0.3476 0.3670 0.3626 0.3625 0.370 0.380 J1B X 0.37925 0.383376 0.395 0.37925 K1B X 0.403 0.403 0.403 0.403 0.403	D.351 D.364 D.368 D.365 D.365 D.365 D.361 4250-4000K V D.309 D.37225 D.3765 D.395	0.338 0.319 0.340 0.3445 0.338 0.301 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.365	0 347 0 351 0 33825 0 334 4500-4750K V 0 3425 0 355 0 355 0 355 0 34525 0	0.34 0.341 0.343 0.3475 0.3475 0.34 H1G x 0.355 0.357 0.365 0.355 0.355 0.355 0.357 0.37175 0.37175 0.37175 0.37175 0.38175 0.36175 0.36175 0.36175 0.36175 0.36175 0.36175 0.36175 0.36175 0.36175 0.36175 0.36175	0.35 0.373 0.377 0.384 0.30 4500-4750K V 0.308 0.381 0.3855 0.37225 0.388 4000-4250K V 0.395 0.4 0.405 0.395 0.385 3500~3750K V 0.395 0.395 0.395 0.41 0.415 0.41 0.415 0.495	0.348 0.303 0.351 0.351 0.3440 H0D x 0.30773 0.38 0.30775 0.38 0.30775 30D x 0.37875 30D x 0.37875 0.37923 0.39 0.30775 0.37925 0.39 0.30775 KKDD x 0.3990 0.410 0.411 0.3990 L1C X 0.42750	0.351 0.350 0.3425 0.33825 4250~4500K V 0.34025 0.359 0.359 0.369 0.359 0.369 0.375 0.385 0.375 0.385 0.375 0.385 0.3745 0.3745 0.3745	0.249 0.357 0.355 0.3470 H1D x 0.3025 0.365 0.373 0.3825 J1D x 0.383375 0.4 0.383375 0.4 0.393 0.409 0.423 0.409 0.423 0.409	0.27 0.38 0.38 0.30 0.30 0.30 0.30 0.37 0.47
0.328 0.34445 0.343 0.343 0.337 HOA X 0.345 0.351 0.3575 0.349 HOA X 0.3645 0.349 HOA X 0.3645 0.349 HOA X 0.3645	0.334 0.33825 0.3255 0.3211 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.335 0.335 0.335 0.335 0.335 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.375 0.3745 0.364 0.384 0.384 0.384 0.388 0.3888 0.38250	0.34 0.347 0.347 0.348 0.335 H1A x 0.303 0.355 0.303 0.355 0.386 0.395 0.387 0.383	0.38 0.304 0.351 0.347 4500-4750K V 0.355 0.388 0.37225 0.359 0.355 4000-4250K V 0.37 0.37 0.37 0.37 0.37 0.355 0.38 0.375 0.38 0.385	0.3445 0.351 0.349 0.343 0.343 0.343 0.3505 0.35775 0.3045 0.36776 0.3045 0.37670 0.387 0.384 0.37670 0.387 0.384 0.37670 0.387 0.384 0.37670 0.387 0.384 0.37670 0.387 0.384 0.37670 0.387 0.384 0.37670 0.387 0.384 0.37670 0.389 0.399 0.411 0.408 0.408 0.4150 0.4150 0.4150	0 33825 0 3420 0 33 0 3250 4250~4500K V 0 3335 0 34625 0 35 0 34625 0 35 0 325 3750~4000K V 0 3335 3750~4000K V 0 335 3750~4000K V 0 335 0 34625 0 36 0 375 0 395 0 39	0.345 0.3476 0.3476 0.3476 0.3253 0.340 0.3253 0.340 0.3525 0.357 0.367 0.38 0.37925 0.39375 0.39375 0.390 0.37925 K1B 0.403 0.403 0.403 0.403 0.403 0.403	D.351 D.364 D.368 D.365 D.361 4250-4500K V D.355 D.3725 D.3725 D.3786 D.3725 D.3786 D.383 D.389 D.389 D.389 D.375 D.399 D.395 D.396 D.395 D.396	0.338 0.339 0.349 0.3445 0.338 0.351 0.351 0.351 0.351 0.353 0.35715 0.351 0.365 0.3095 0.37715 0.3865 0.3095 0.37975 0.3865 0.3095 0.37975 0.3870 0.3870 0.3870 0.390	0 347 0 351 0 23825 0 334 4500-4750K V 0 3425 0 355 0 355 0 355 0 3425 4000-4260K V 0 3425 4000-4260K V 0 375 0 385 0 375 0 385 0 385 0 375 0 385 0 385 0 375 0 385 0 385 0 375 0 385 0 375 0 385 0 385 0 375 0 385 0 385 0 375 0 385 0 385 0 385 0 385 0 385 0 385 0 385 0 385 0 385 0 375 0 385 0 385 0 375 0 385 0 385 0 375 0 385 0 385 0 375 0 375 0 375 0 385 0 375 0 375 0 375 0 375 0 375 0 375 0 375 0 385 0 375 0	0.34 0.241 0.243 0.2475 0.349 0.2475 0.341 0.2475 0.340 0.355 0.355 0.365 0.365 0.365 0.365 0.365 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.3815 0.383375 0.38176 0.383375 0.38176 0.383375 0.38176 0.383375 0.38176 0.383375 0.38176 0.383375 0.38176 0.38176 0.38176 0.38176 0.38176 0.38176 0.38176 0.38176 0.38176 0.38176 0.38176 0.38176 0.48176 0.48176 0.48176	0.36 0.373 0.373 0.377 0.384 0.30 4500~4750K V 0.308 0.381 0.385 0.37225 0.269 4090~4250K V 0.325 0.4 0.405 0.39 0.395 0.41 0.415 0.417 0.4	0.348 0.353 0.351 0.3440 HOD x 0.30775 0.38 0.30775 0.38 0.30775 0.37675 x 0.37675 0.37675 0.37675 0.399 0.37675 0.403 0.411 0.399 L1C x 0.42750 0.42800	0.351 0.350 0.3425 0.33525 4250-4500K V 0.34025 0.359 0.359 0.365 0.34825 2750-4000K V 0.359 0.359 0.34825 3750-4000K V 0.359 0.359 0.34825 3750-4000K V 0.359 0.359 0.359 0.370 0.385 0.370 0.385 0.370 0.385 0.371 0.385 0.3745 0	0.349 0.357 0.355 0.3470 H1D	0.27 0.38 0.38 0.36 0.30 4250-450 V 0.3722 0.385 0.39 0.3760-400 V 0.39 0.3760-400 0.41 0.395 0.40 0.41 0.415 0.42 0.42 0.40 0.4
0 328 0 3445 0 342 0 347 0 343 0 337 HGA	0.33420 0.33820 0.9255 0.321 4500~4750K V 0.33 0.3425 0.3425 0.3425 0.3335 0.3425 0.3335 0.3425 0.335 0.3455 0.355 0.35 0.360 0.365 0.355 0.35 0.360 0.365 0.37 0.3745 0.384 0.388 0.3888 0.3888 0.3888 0.3888 0.38880 0.3888	0.34 0.347 0.347 0.348 0.335 H1A x 0.353 0.355 0.365 0.3792 0.3855 KIA x 0.395 0.499 0.403 0.403 0.403 0.403 0.403 0.42705 0.42705 0.42705	0.38 0.304 0.351 0.347 4500×4750K V 0.350 0.368 0.31225 0.359 0.355 4000×4250K V 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.39 0.375 0.37 0.385 0.39 0.375 0.385 0.39 0.375 0.385 0.39 0.4 0.39 0.39 0.39 0.4 0.39 0.39 0.39 0.39 0.4 0.39 0.39 0.39 0.4 0.39 0.39 0.39 0.39 0.4 0.39 0.39 0.39 0.39 0.4 0.39 0.39 0.39 0.39 0.39 0.39 0.4 0.39	0.2445 0.351 0.349 0.343 HOB x 0.3505 0.35775 0.362 0.3625 0.3625 0.37425 0.	0.33250 0.3425 0.3425 0.3425 0.33 0.3250 4250-4500K V 0.3335 0.34625 0.35 0.337 0.3395 3750-4000K V 0.304 0.37 0.395 0.305 0.37 0.304 0.37 0.304 0.3745 0.319 0.364 0.3745 0.319 0.368 0.364 0.3745 0.319 0.368 0.364 0.3745 0.319 0.368 0.364 0.3745 0.379 0.3790 0.3790 0.3790 0.3790	0.345 0.3476 0.3476 0.3476 0.3670 0.3623 0.3400 H1B x 0.300 0.3625 0.397 0.387 0.387 0.398 x 0.37925 0.3937 0.395 0.395 0.395 0.395 0.395 0.4020	D.351 D.364 D.368 D.368 D.365 D.361 4250-4500K V D.355 D.3725 D.3725 D.3725 D.3765 D.375 D.375 D.383 D.385 D.375 D.395 D.385 D.375 D.395	0.338 0.339 0.349 0.349 0.349 0.348 0.338 HOC x 0.351 0.351 0.353 0.35715 0.361 JOC X 0.3665 0.3090 0.37975 0.3665 KOC x 0.387 0.397 0.403 0.397 0.403 0.397	0 347 0 331 0 33225 0 334 4500-4750K V 0 3425 0 355 0 3455 0 3455 0 3455 0 3425 4000-4250K V V 0 375 0 375 0 375 0 375 0 375 0 375 0 397 0 497 0 49	0.34 0.241 0.243 0.3475 0.342 0.3475 0.344 0.350 0.350 0.357 0.355 0.355 0.355 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.37175 0.381375 0.37175 0.381375 0.37175 0.381375 0.37175 0.381375 0.37175 0.381375 0.37175	0.35 0.373 0.377 0.384 0.30 4500-4700K V 0.308 0.381 0.3085 0.37225 0.388 4000-4250K V 0.385 0.37225 0.385 0.41 0.405 0.395 0.3750K V 0.385 0.41 0.415 0.415 0.415 0.415 0.415 0.415 0.415 0.415 0.41700 0.385	HOD X 0.3045 0.30775 0.367 0.38775 0.367 0.3775 0.367 0.3775 0.3775 0.37925 0.	0.351 0.350 0.3425 0.3350 0.3425 0.33825 4250-4000K V 0.34925 0.359 0.359 0.365 0.34825 3750-4000K V 0.375 0.385 0.375 0.385 0.375 0.385 0.377 0.385 0.379 0.379 0.379 0.379 0.379 0.379 0.379 0.379 0.379 0.379 0.379 0.379	0.349 0.357 0.385 0.3470 H1D x 0.3025 0.3873 0.373 0.3825 J1D x 0.383375 0.450 0.490 0.491 0.491 0.492 0.493	0.27 0.38 0.36 0.36 0.30 0.30 0.372 0.375 0
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Note: It maintains a tolerance of x, y ±0.005



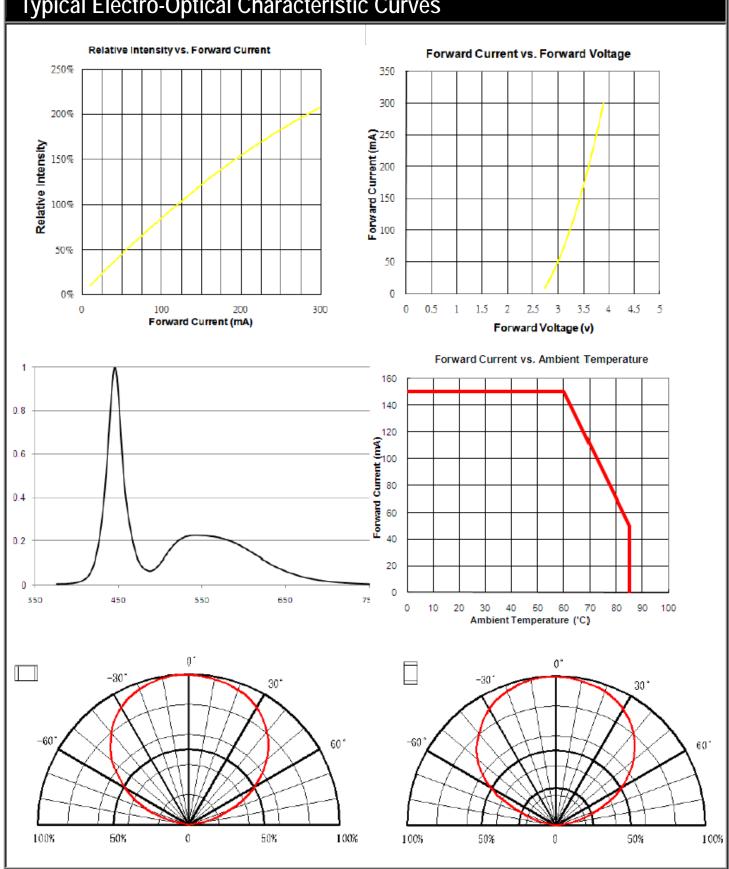
Part Number: 62-217BUW1C2

CIE Chromaticity Diagram



Part Number: 62-217BUW1C2

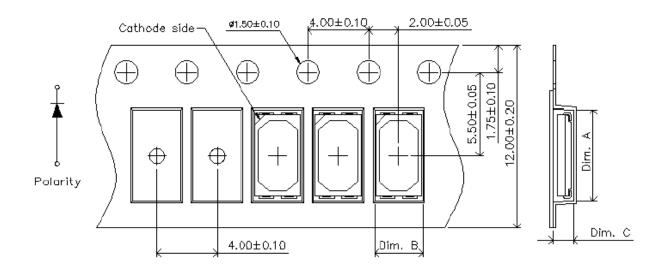
Typical Electro-Optical Characteristic Curves



Part Number: 62-217BUW1C2

Packaging Tape, Reel, and Packing Model

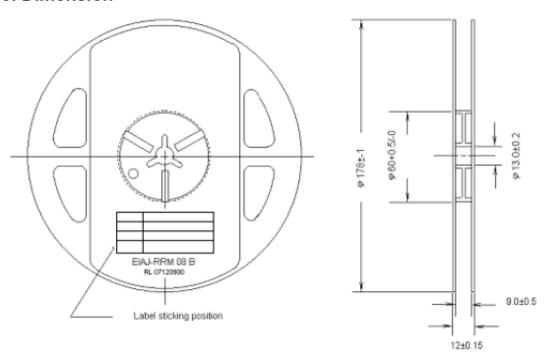
Tape Dimension



Part No.	Dim. A	Dim. B	Dim. C	Q'ty/Reel
HT-T5301	6.0±0.1	3.2±0.1	1.1±0.1	2K

Unit: mm

Reel Dimension



Part Number: 62-217BUW1C2

Precautions For Use

1. Over-current proof

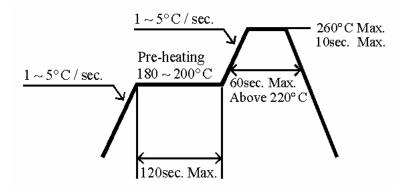
Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

2. Storage

- 2.1 Do not open moisture proof bag before the products are ready to use.
- 2.2 Before opening the package, the LEDs should be kept at 30°C or less and 90%RH or less.
- 2.3 The LEDs should be used within a year.
- 2.4 After opening the package, the LEDs should be kept at 30°C or less and 70%RH or less.
- 2.5 The LEDs should be used within 168 hours (7 days) after opening the package.
- 2.6 If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions. Baking treatment : 60±5°C for 24 hours.

3. Soldering Condition

3.1 Pb-free solder temperature profile



- 3.2 Reflow soldering should not be done more than two times.
- 3.3 When soldering, do not put stress on the LEDs during heating.
- 3.4 After soldering, do not warp the circuit board.

4. Soldering Iron

Each terminal is to go to the tip of soldering iron temperature less than 280°C for 3 seconds within once in less than soldering iron capacity 25W. Leave two seconds and more intervals, and do soldering of each terminal. Be careful because the damage of the product is often started at the time of the hand solder.