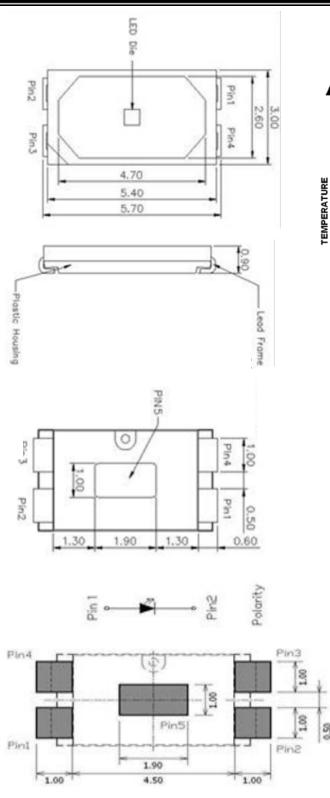
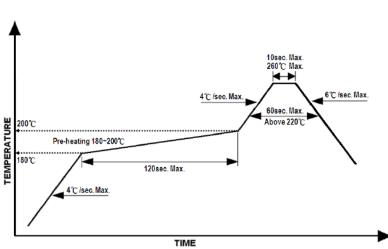
5630 Package Power White Surface Mount Device

Part Number: 62-217BUW1C1

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: 62-217BUW1C1

Pulse Forward Current

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

ELECTRO-OPTICAL CHARACTERISTICS $(T_A=25^{\circ}C)$ Test **Value Symbol Parameter** Unit Condition MIN. TYP. MAX. 120 Viewing angle at 50% l_V I_F=60mA $2\theta 1/2$ Deg Forward voltage 2.8 ---٧ I_F=60mA V_{F} 3.5 5250 5750 6250 **Color Temperature** CCT K I_F=60mA 3750 4000 4250 20 Luminous Flux I_F=60mA Flux lm

21

150

IFP

mΑ

Absolute maximum ratings $(T_A=25^{\circ}C)$ **Symbol Parameter Value** Unit Forward current 100 lF mΑ Reverse voltage V_R 5 V 1 μΑ Reverse current I_R 235 mW Power dissipation P_{D} Operating temperature range Top -30 ~+80 $^{\circ}$ C -40 ~+85 $^{\circ}$ C Storage temperature range Tstq

Part Number: 62-217BUW1C1

Bin Code

Iv Bin:

Color	Bin Code	Spec. Range					
	MC2	15.8~18.1lm					
	MD2	16.9 ~18.1lm					
	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	lv Bin				
Min.	Max.	Min.	Тур.	Max.		
2750K	3250K	MD2	NA1	NB1		
3750K	4250K	NB1	NC2	ND2		
5250K	6250K	NA1	NB1	NC2		

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 ±0.005V

Part Number: 62-217BUW1C1

Color Rank

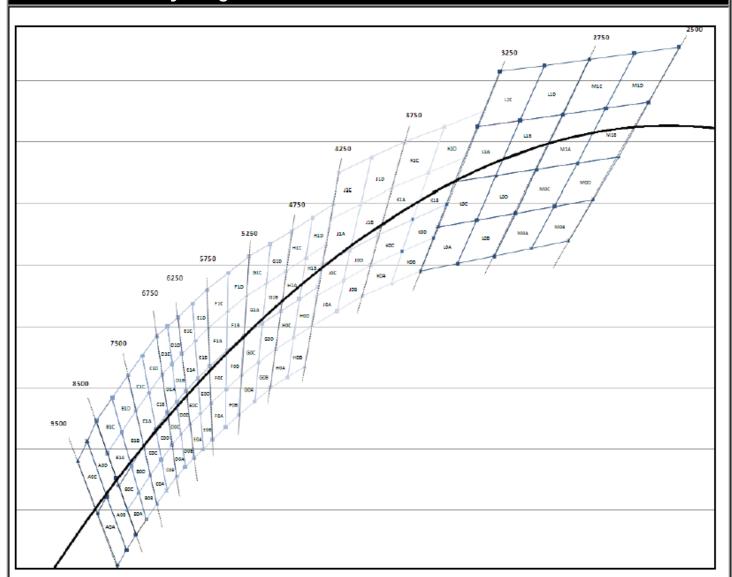
BOA	9000~8500K	B1A	8000~8500K	B0B	7500~8000k	B1B	7500~8000k	B0C	3000-8500k	B1C	8:000~8500k	BOD	7500~8000k	B1D	7500-9000k
X	Y	Х	V	Ж	V	ж	V	Ж	V	ж	V	ж	Y	х	Y
0.298	0.282	0.2916	0.298	0.302	0.287	0.29625	0.3045	0.2948	0.29	0.28725	0.30883	0.299125	0.29575	0.292825	0.315565
0.2948	0.29	0.28725	0.30883	0.299125	0.29575	0.292825	0.315585	0.2915	0.298	0.283	0.31928	0.29825	0.3045	0.289	0.32663
0.302	0.29575	0.292825	0.315585	0.3035	0.3015	0.298	0.3225	0.29625	0.3045	0.289	0.32883	0.301	0.311	0.295	0.334
0.298	0.282	0.2915	0.298	0.302	0.287	0.29625	0.3045	0.2948	0.29	0.28725	0.30883	0.299125	0.29575	0.292825	0.315585
								5.25.5							
COA	7000~7500K	C1A	7000~7500K	C0B	8750~7000K	C1B	8750~7000K	COC	7000~7500K	C1C	7000~7500K	COD	8750~7000K	C1D	8750~7000K
x	v	X	ν	×	V	×	ν	X	ν	×	V	x	v	×	v
0.308	0.292	0.301	0.311	0.30975	0.2965	0.3055	0.3165	0.3035	0.3015	0.298	0.3225	0.307625	0.3065	0.303	0.3285
0.3035	0.3015	0.238	0.3225	0.307525	0.3065	0.303	0.3285	0.301	0.311	0.295	0.334	0.3055	0.3165	0.3005	0.3405
0.307625	0.3065	0.303	0.3285	0.31175	0.3115	0.308	0.3345	0.3055	0.3165	0.3005	0.3405	0.31	0.322	0.306	0.347
0.30975	0.2965	0.3055	0.3165 0.311	0.3135	0.301	0.3055	0.322	0.307525	0.3065	0.303	0.3285	0.31175	0.3115	0.308	0.3345
0.305	0.292	0.301	0.511	0.30975	0.2905	0.3000	0.3103	0.3033	0.3015	0.250	0.5225	0.307025	0.3000	0.303	0.5260
D0A	6500×6750K	D1A	5500~5750K	D0B	5250~5500K	D18	5250~5500K	D0C	5500~5750K	DIG	5500~5750K	D0D	5250~6500K	DID	6250~6500K
Y	V	Υ	V	X	V	X	V	Х	V	Х	V	X	V	×	V
0.3135	0.301	0.31	0.322	0.3107	0.304	0.3135	0.3255	0.31175	0.3115	0.308	0.3345	0.3151	0.31475	0.31175	0.33775
0.31175	0.3115	0.308	0.3345	0.3151	0.31475	0.31175	0.33775	0.31	0.322	0.300	0.347	0.3135	0.3255	0.31	0.35
0.3151	0.31475	0.31175	0.33775	0.3185	0.318	0.3155	0.341	0.3135	0.3255	0.31	0.35	0.317	0.329	0.314	0.353
0.3167	0.304	0.3135	0.3255	0.32	0.307	0.317	0.329	0.3151	0.31475	0.31175	0.33775	0.3185	0.318	0.3155	0.341
0.3135	0.301	0.31	0.322	0.3107	0.304	0.3135	0.3255	0.31175	0.3115	0,308	0.3345	0.3151	0.31475	D.31175	0.33775
EDA	800000-808000	E1A	8000W, 8380W	EAR	8780, F000V	E10	8780, 8000V	EOC	8000V- 8340V	E10	BOOOK, BOACK	EAD	#750. #750U	FID	#7#0.#550V
EDA	6000K-6250K	E1A	5000K~5250K	E0B X	5750~5000K	E18	5750-5000K	E0C X	5000K~5250K	EIG	5000K~5250K		5750~5000K	210	5750~6000K
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	0.34525
0.3185	0.318	0.3155	0.341	0.3225	0.3215	0.3205	0.34525	0.317	0.329	0.314	0.353	0.3215	0.333	0.3195	0.3575
0.3225	0.3215	0.3205	0.34525	0.3205	0.325	0.3255	0.3495	0.3215	0.333	0.3195	0.3575	0.320	0.337	0.325	0.302
0.3235	0.31	0.3215	D.333	0.327	0.313	0.326	0.337	0.3225	0.3215	0.3205	0.34525	0.3265	0.325	0.3255	0.3495
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	0.34525
E0.4	1100 1100	F44	#### #################################	FAR	2020 F210	E45	#2#2 ##2#V	500	FF00 FF00:	510	FE0.0 FE0.01	EAD.	F250 F520	E(D)	2220 222011
FDA	5500~5750K	F1A	5500~5750K	FOB ×	5250~5500K	F1B x	5250~5500K	FOC ×	5500~5750K	F1C ×	5000~5750K	F0D ×	5250~5500K	F1D	5250~5500K
0.327	0.313	0.328	0.337	0.332	0.317	0.3325	0.342	0.3285	0.325	0.3255	0.3495	0.33225	0.3295	D.33275	0.35475
0.3265	0.325	0.3255	0.3495	0.33225	0.3295	0.33275	0.35475	0.326	0.337	0.325	0.382	0.3325	0.342	0.333	0.3875
0.33225	0.3295	0.33275	0.35475	0.338	0.334	0.34	0.38	0.3325	0.342	0.333	0.3875	0.339	0.347	0.341	0.373
0.332	0.317	0.3325	0.342	0.337	0.321	0.339	0.347	0.33225	0.3295	0.33275	0.35475	0.338	0.334	0.34	0.38
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	0.35475
GQA	5000K-5250K	G1A	5000K-5250K		4750-5000K	G1B	4750-5000K	G0C	5000K-5250K	G1C	5000K-5250K		4750-5000K	G1D	4750-5000K
X	v	X											v		v
0.227		0.120	0.247	0.242	0.2255	0.248	0.251	0.330	0.224	0.24	0.16	0.1445		0.1475	0.184
0.337	0.321	0.339	0.347 0.38	0.343	0.3255	0.346	0.351 0.384	0.338	0.334 0.347	0.34	0.36 0.373	0.3445	0.33825	0.3475	0.364
0.337 0.338 0.3446		0.339 0.34 0.3476	0.347 0.38 0.384				0.351 0.384 0.388		0.334 0.347 0.351		0.36 0.373 0.377				0.364 0.377 0.381
0.338	0.321 0.334	0.34	0.38	0.343 0.3445	0.3255 0.33825	0.348 0.3475	0.384	0.339	0.347	0.34	0.373 0.377 0.384	0.3445 0.346	0.33825 0.351	0.3475 0.349	0.377 0.381 0.388
0.338 0.3445	0.321 0.334 0.33925	0.34 0.3476	0.36 0.384	0.343 0.3445 0.351	0.3255 0.33825 0.3425	0.348 0.3475 0.355	0.384 0.388	0.338 0.339 0.348	0.347 0.351	0.34 0.341 0.349	0.373 0.377	0.3445 0.346 0.353	0.33925 0.351 0.355	0.3475 0.349 0.357	0.377 0.381
0.338 0.3445 0.343	0.321 0.334 0.33825 0.3255	0.34 0.3476 0.348	0.36 0.384 0.351	0.343 0.3445 0.351 0.349	0.3255 0.33825 0.3425 0.33	0.346 0.3475 0.355 0.353	0.384 0.389 0.355	0.339 0.346 0.3445	0.347 0.351 0.33825	0.34 0.341 0.349 0.3475	0.373 0.377 0.384	0.3445 0.346 0.353 0.351	0.33825 0.351 0.355 0.3425	0.3475 0.349 0.357 0.355	0.377 0.381 0.388
0.338 0.3445 0.343 0.337	0.321 0.334 0.33825 0.3266 0.321	0.34 0.3475 0.348 0.339	0.38 0.384 0.351 0.347	0.343 0.3445 0.361 0.349 0.343	0.3255 0.33825 0.3425 0.33 0.3265	0.348 0.3475 0.355 0.353 0.348	0.384 0.388 0.355 0.351	0.338 0.339 0.346 0.3445 0.338	0.347 0.351 0.33825 0.334	0.34 0.341 0.349 0.3475	0.373 0.377 0.384 0.38	0.3445 0.346 0.353 0.351	0.33825 0.351 0.355 0.3425 0.33825	0.3475 0.349 0.357 0.355	0.377 0.381 0.368 0.364
0.338 0.3445 0.343	0.321 0.334 0.33825 0.3255	0.34 0.3476 0.348	0.36 0.384 0.351	0.343 0.3445 0.351 0.349	0.3255 0.33825 0.3425 0.33	0.346 0.3475 0.355 0.353	0.384 0.389 0.355	0.339 0.346 0.3445	0.347 0.351 0.33825	0.34 0.341 0.349 0.3475	0.373 0.377 0.384	0.3445 0.346 0.353 0.351	0.33825 0.351 0.355 0.3425	0.3475 0.349 0.357 0.355	0.377 0.381 0.388
0.338 0.3446 0.343 0.337 H0A x 0.349	0.321 0.334 0.33825 0.3285 0.321	0.34 0.3475 0.348 0.339	0.36 0.384 0.351 0.347 4500-4750K V 0.355	0.343 0.3445 0.361 0.349 0.343	0.3255 0.33825 0.3425 0.3425 0.3265 4250-4500K	0.346 0.3475 0.365 0.353 0.346 H1B × 0.38	D.384 D.388 D.355 D.351	0.338 0.339 0.346 0.3445 0.338	0.347 0.351 0.33825 0.334 4500-4750K V 0.3425	0.34 0.341 0.349 0.3475 0.34	0.373 0.377 0.384 0.36	0.3445 0.348 0.353 0.351 0.3445	0.33625 0.361 0.365 0.3425 0.33826 4250-4500K V 0.34625	0.3475 0.349 0.357 0.355 0.3475 H1D × 0.9625	0.377 0.381 0.388 0.384
0.338 0.2446 0.343 0.337 H0A × 0.349 0.351	0.321 0.324 0.33825 0.3255 0.321 4500-4750K 0.33 0.3425	0.34 0.3475 0.348 0.339 H1A x 0.363 0.355	0.36 0.384 0.351 0.347 4500-4750K 0.355 0.398	0.343 0.3445 0.351 0.349 0.343 HOB × 0.3555 0.35775	0.3255 0.33825 0.3425 0.33 0.3255 4250-4500K V 0.3335 0.34625	0.346 0.3475 0.385 0.385 0.346 H1B × 0.38	0.384 0.389 0.355 0.351 4250-4500K V 0.359 0.37225	0.338 0.339 0.346 0.3445 0.338 HDC x 0.351	0.347 0.351 0.33825 0.334 4500-4750K V 0.3426 0.355	0.34 0.341 0.349 0.3475 0.34 H1C x 0.366 0.357	0.373 0.277 0.384 0.36 4500-4750K V 0.388 0.381	0.3445 0.346 0.253 0.251 0.3445 HOD × 0.35776 0.38	0.33625 0.361 0.365 0.3426 0.33825 4250-4500K V 0.34626 0.355	0.3475 0.349 0.357 0.356 0.3475 H1D x 0.3625 0.393	0.377 0.381 0.368 0.364 4250-4500K V 0.37225 0.3855
0.338 0.2445 0.343 0.337 H0A x 0.349 0.351	0.321 0.334 0.33825 0.3255 0.321 4500-4750K V 0.32 0.3425 0.3425	0.34 0.3475 0.348 0.339 H1A 2 0.363 0.355 0.3025	0.38 0.384 0.351 0.347 4500-4750K V 0.355 0.398	0.343 0.3445 0.351 0.349 0.343 H0B × 0.3565 0.35775 0.3045	0.3255 0.33825 0.3425 0.32 0.3255 4250-4500K V 0.3335 0.34625 0.34625	0.346 0.3475 0.385 0.383 0.346 H1B × 0.38 0.3825 0.37	0.384 0.388 0.385 0.351 4250-4500K V 0.359 0.37225 0.3705	0.338 0.339 0.346 0.3445 0.338 HDC x 0.351 0.353	0.347 0.351 0.33825 0.334 4500×4750K V 0.3425 0.355 0.305	0.34 0.341 0.349 0.3475 0.34 H1C x 0.366 0.357 0.305	0.373 0.377 0.384 0.38 4500-4750K V 0.388 0.381 0.3855	0.3445 0.346 0.253 0.251 0.3445 HDD x 0.36776 0.38	0.33925 0.351 0.355 0.3425 0.33925 4250-4500K V 0.34625 0.355 0.303	0.3475 0.349 0.357 0.355 0.3475 H1D × 0.3625 0.3435 0.373	0.377 0.381 0.368 0.364 4250-4500K V 0.37225 0.3855 0.39
0.338 0.3445 0.343 0.337 H0A x 0.349 0.351 0.35775 0.3555	0.321 0.334 0.33925 0.3255 0.321 4500-4750K V 0.23 0.3425 0.3425 0.3425 0.3335	0.34 0.3475 0.348 0.339 H1A 2 0.363 0.363 0.3025 0.3025	0.36 0.364 0.351 0.347 4500+4750K V 0.355 0.358 0.37225 0.359	0.343 0.3445 0.361 0.349 0.343 HOB × 0.3555 0.35775 0.3045 0.362	0.3255 0.33925 0.3425 0.3255 0.3255 4250-4500K V 0.3335 0.34625 0.34625 0.347	0.346 0.3475 0.355 0.353 0.348 H1B × 0.38 0.3825 0.387 0.387	0.384 0.388 0.355 0.351 4250-4500K V 0.37225 0.37225 0.3725 0.389	0.339 0.346 0.3445 0.3445 0.338 HDC x 0.351 0.351 0.353 0.3576	0.347 0.351 0.33825 0.334 4500-4750K V 0.3425 0.355 0.355 0.34825	0.34 0.341 0.349 0.3475 0.3475 0.344 H1C x 0.355 0.357 0.365	0.373 0.377 0.384 0.38 4500-4750K V 0.388 0.381 0.3845 0.37225	0.3445 0.346 0.353 0.351 0.3445 H0D × 0.35776 0.39 0.307 0.3645	0.33925 0.351 0.355 0.3425 0.3425 0.33825 4250-4500K V 0.34625 0.355 0.303 0.35	0.3475 0.349 0.367 0.355 0.3475 H1D x 0.3625 0.3625 0.37	0.377 0.381 0.389 0.364 4250-4500K V 0.37225 0.385 0.39 0.3765
0.338 0.2445 0.343 0.337 H0A x 0.349 0.351	0.321 0.334 0.33825 0.3255 0.321 4500-4750K V 0.32 0.3425 0.3425	0.34 0.3475 0.348 0.339 H1A 2 0.363 0.355 0.3025	0.36 0.384 0.351 0.347 4500-4750K V 0.355 0.398	0.343 0.3445 0.351 0.349 0.343 H0B × 0.3565 0.35775 0.3045	0.3255 0.33825 0.3425 0.32 0.3255 4250-4500K V 0.3335 0.34625 0.34625	0.346 0.3475 0.385 0.383 0.346 H1B × 0.38 0.3825 0.37	0.384 0.388 0.385 0.351 4250-4500K V 0.359 0.37225 0.3705	0.338 0.339 0.346 0.3445 0.338 HDC x 0.351 0.353	0.347 0.351 0.33825 0.334 4500×4750K V 0.3425 0.355 0.305	0.34 0.341 0.349 0.3475 0.34 H1C x 0.366 0.357 0.305	0.373 0.377 0.384 0.38 4500-4750K V 0.388 0.381 0.3855	0.3445 0.346 0.253 0.251 0.3445 HDD x 0.36776 0.38	0.33925 0.351 0.355 0.3425 0.33925 4250-4500K V 0.34625 0.355 0.303	0.3475 0.349 0.357 0.355 0.3475 H1D × 0.3625 0.3435 0.373	0.377 0.381 0.368 0.384 4250-4500K V 0.37225 0.3855 0.39
0.338 0.2445 0.343 0.337 H0A x 0.349 0.351 0.35775 0.3555	0.321 0.334 0.33825 0.321 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3335	0.34 0.3475 0.348 0.339 H1A 2 0.363 0.363 0.3025 0.3025	0.38 0.384 0.385 0.347 0.347 4500-4750K V 0.355 0.355 0.355 0.355	0.343 0.3445 0.361 0.349 0.343 HOB × 0.3555 0.35775 0.3045 0.362	0.3255 0.33325 0.3425 0.3255 0.3255 4250-4500K V 0.3335 0.34525 0.34525 0.34525 0.34525 0.34525	0.346 0.3475 0.355 0.353 0.346 H1B × 0.38 0.3825 0.37 0.387 0.38	0 384 0 388 0 385 0 381 0 381 4250-4500K V 0 389 0 37225 0 3760 0 382 0 389	0.339 0.346 0.3445 0.3445 0.338 HDC x 0.351 0.351 0.353 0.3576	0.347 0.351 0.33925 0.334 4500-4750K V 0.3426 0.3426 0.355 0.365 0.3425	0.34 0.341 0.349 0.3475 0.3475 0.344 H1C x 0.355 0.357 0.365	0.373 0.377 0.377 0.364 0.36 4500-4750K V 0.388 0.381 0.3846 0.37225 0.398	0.3445 0.346 0.353 0.351 0.3445 H0D × 0.35776 0.39 0.307 0.3645	0.33925 0.351 0.355 0.3425 0.33825 4250-4500K V 0.34825 0.355 0.303 0.36 0.34925	0.3475 0.349 0.357 0.3475 0.3475 H1D x 0.3625 0.3485 0.373 0.373 0.3625	0.377 0.381 0.388 0.384 4250-4500K V 0.37226 0.3855 0.39 0.3785 0.3725
0.338 0.2445 0.343 0.337 H0A x 0.349 0.351 0.35775 0.3555	0.321 0.334 0.33925 0.3255 0.321 4500-4750K V 0.23 0.3425 0.3425 0.3425 0.3335	0.34 0.3475 0.348 0.339 H1A. x 0.353 0.355 0.3025 0.3025 0.353	0.36 0.364 0.351 0.347 4500+4750K V 0.355 0.358 0.37225 0.359	0.343 0.3445 0.345 0.349 0.343 HOB × 0.3555 0.35775 0.362 0.3555 JOB	0.3255 0.33925 0.3425 0.3255 0.3255 4250-4500K V 0.3335 0.34625 0.34625 0.347	0.346 0.3475 0.355 0.355 0.348 0.348 H1B × 0.39 0.3825 0.37 0.367 0.367	0.384 0.388 0.355 0.351 4250-4500K V 0.37225 0.37225 0.3725 0.389	0.339 0.339 0.345 0.3445 0.338 HOC 2 0.351 0.351 0.351 0.35776 0.351	0.347 0.351 0.33825 0.334 4500-4750K V 0.3425 0.355 0.355 0.34825	0.34 0.341 0.349 0.3475 0.3475 0.3475 0.340 0.355 0.355 0.355 0.365 0.365	0.373 0.377 0.384 0.38 4500-4750K V 0.388 0.381 0.3845 0.37225	0.3445 0.346 0.253 0.251 0.3445 HOD × 0.35776 0.39 0.307 0.3645 0.35775	0.33925 0.351 0.355 0.3425 0.3425 0.33825 4250-4500K V 0.34625 0.355 0.303 0.35	0.3475 0.349 0.357 0.365 0.3475 H1D x 0.3625 0.3625 0.373 0.37 0.3625 J1D	0.377 0.381 0.389 0.364 4250-4500K V 0.37225 0.3855 0.39 0.3765
0.338 0.2445 0.343 0.327 0.327 HOA X 0.349 0.351 0.35770 0.3555 0.349	0.321 0.334 0.33825 0.2255 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.335	0.34 0.3475 0.348 0.339 0.339 H1A x 0.353 0.355 0.3025 0.385 J.353 J.353	0.38 0.384 0.385 0.347 4500-4750K V 0.355 0.338 0.3725 0.389 0.355 4000-4250K V 0.37	0.349 0.3445 0.346 0.349 0.349 0.349 0.349 0.3655 0.35775 0.3640 0.362 0.3555 JOB	0.9255 0.33925 0.3425 0.32 0.3255 4250-4500K V 0.335 0.34025 0.34025 0.350 0.337 0.335 0.337 0.335	0.346 0.3475 0.355 0.353 0.346 0.346 0.382 0.3825 0.37 0.387 0.387 0.387	0 384 0 388 0 385 0 385 0 381 4250-4500K V 0 389 0 37225 0 3765 0 383 0 360 3759-4000K	0.339 0.348 0.3445 0.3445 0.338 0.338 0.351 0.351 0.351 0.351	0 347 0 351 0 3525 0 334 4520-4750K V 0 3425 0 355 0 3455 0 3425 0 3425 V 4000-4250K V 0 36	0.341 0.349 0.349 0.349 0.3475 0.34 H1C x 0.357 0.365 0.3826 0.3826 0.3835 J1C x 0.37175	0.373 0.377 0.387 0.38 4500-4750K V 0.388 0.381 0.3845 0.37225 0.386 4000-4250K V 0.385	0.3445 0.246 0.285 0.3851 0.3645 HOD X 0.36776 0.367 0.36775 0.36775 X 0.3775	0.33625 0.361 0.365 0.3425 0.33825 4250-4500K V 0.3625 0.350 0.350 0.350 0.355 0.3625 0.3625 0.3625 0.3625	0.3475 0.349 0.251 0.355 0.3475 H1D x 0.3625 0.3625 0.3625 0.363375	0.377 0.381 0.388 0.364 4250-4500K V 0.37225 0.3855 0.3765 0.37225 3750-4000K V 0.39
0.338 0.2445 0.342 0.327 H0A x 0.349 0.351 0.35775 0.3555 0.349 J0A x 0.3645 0.3645	0.321 0.334 0.33825 0.3255 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.3325 0.3335 0.3335 0.33	0.34 0.3475 0.348 0.339 H1A x 0.368 0.355 0.3020 0.38 0.355 J1A x 0.368 0.3776	0.38 0.384 0.385 0.347 4500-4750K V 0.385 0.3725 0.389 0.3725 4000-4250K V 0.37 0.385	0.349 0.3445 0.351 0.351 0.349 0.349 0.349 0.3656 0.3573 0.362 0.3555 JOB x 0.3742 0.3742 0.3742 0.3742	0.9285 0.33925 0.3425 0.3255 0.3255 4250-4500K V 0.3335 0.3425 0.3425 0.3425 0.3425 0.3425 0.355 0.355 0.355 0.355	0.346 0.3475 0.355 0.355 0.363 0.346 H1B x 0.38 0.387 0.397 0.397 0.397 0.397 0.397 0.397	0 284 0 288 0 285 0 251 4250-4500K V 0 269 0 37225 0 3760 0 283 0 355 3750-4000K V 0 375 0 375 0 375	0.339 0.346 0.346 0.346 0.348 0.361 0.361 0.361 0.361 0.361 0.361 0.361 0.361 0.361 0.361 0.361	0 347 0 351 0 3352 0 334 4500-4750K V 0 3425 0 355 0 3425 0 3425 4000-4250K V 4000-4250K V 0 35 0 35 0 3425	0.34 0.341 0.349 0.3475 0.3475 0.34 H1C x 0.365 0.355 0.365 0.355 J1C x 0.3175 0.3175	0.273 0.277 0.364 0.36 4500-4750K V 0.389 0.381 0.3855 0.3225 0.398 4000-4250K V V 0.388 0.3855 0.398	0.3445 0.246 0.253 0.251 0.3445 HOD × 0.35776 0.39 0.307 0.307 0.307 0.307 0.30775	0.33925 0.351 0.355 0.3425 0.3425 0.33825 4250-4500K Y 0.34625 0.355 0.365 0.34625 2750-4000K Y 0.365 0.375	0.3475 0.349 0.357 0.355 0.3475 H1D x 0.3625 0.363 0.377 0.3625 J1D x 0.363 0.377 0.3625	0.377 0.381 0.388 0.384 4250-4500K V 0.37226 0.3855 0.39 0.3765 0.3725 3760-4000K V 0.39 0.406
0.338 0.3448 0.3443 0.337 0.337 0.337 0.337 0.351 0.3515 0.3515 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645	0.321 0.334 0.33825 0.3225 0.321 4500-4750K V 0.33 0.34025 0.34025 0.3336 0.3336 0.335 4000-4250K V 0.35 0.36 0.36 0.37 0.38	0.34 0.3475 0.3485 0.3398 H1A × 0.363 0.363 0.355 0.3027 0.38 0.355 J1A × 0.3685 0.3716 0.383375	0.38 0.384 0.385 0.361 0.347 4500-4750K V 0.355 0.380 0.37225 0.385 4000-4250K V 0.3725 0.385 0.393	0.343 0.3445 0.351 0.349 0.343 HOB x 0.3656 0.35775 9.3040 0.3655 JOB X 0.37676 0.377676	0.9255 0.33925 0.3425 0.32 0.3255 0.3255 4250-4500K V 0.3336 0.34025 0	0.346 0.3475 0.355 0.355 0.356 0.359 0.346 H1B × 0.382 0.382 0.367 0.367 0.39 JJB 0.3823 0.3925 0.3935	0 384 0 388 0 385 0 351 4250-4500K V 0 389 0 37225 0 3760 0 383 0 350 3750-4000K 3750-4000K	0.339 0.339 0.348 0.348 0.348 0.348 0.351 0.351 0.357 0.357 0.351 0.351 0.351	0 347 0 351 0 3825 0 334 4500-4750K V 0 3425 0 3455 0 3455 0 3425 4000-4250K V 0 355 0 3425 0 3425	0.34 0.341 0.349 0.3475 0.3475 0.34 H1C x 0.355 0.355 0.365 0.3835 0.3835 0.3172 0.3172 0.3875	0.273 0.277 0.384 0.36 0.36 4500-4750K V 0.382 0.381 0.3845 0.27225 0.385 4000-4250K V 0.385 0.385	0.3445 0.346 0.383 0.383 0.381 0.3445 HOD 8 0.34775 0.307 0.3845 0.39775 0.39775 0.3775 0.3775 0.3775 0.3775	0.33625 0.361 0.355 0.3425 0.3425 0.33925 4250-4500K V 0.3625 0.359 0.3625 3750-4000K 3750-4000K 0.365 0.3625 0.3625	0.3475 0.349 0.357 0.355 0.3475 H1D × 0.305 0.305 0.373 0.37 0.305 0.373 0.375 0.38375 0.38375	0.377 0.381 0.388 0.384 0.384 4250-4500K V 0.37226 0.3855 0.39 0.3765 0.37225 3750-4000K V 0.39 0.406 0.41
0.338 0.2442 0.337 H0A x 0.249 0.3517 0.3575 0.3575 0.345 0.3575 0.345 0.345 0.3573 0.3575 0.345 0.345 0.345	0.321 0.334 0.33825 0.2255 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.335 0.33 4000-4250K V 0.35 0.35 0.35	0.34 0.346 0.346 0.399 H1A x 0.363 0.355 0.	0.38 0.384 0.385 0.387 0.347 4500-4750K V 0.355 0.392 0.3720 0.389 0.355 4000-4250K V 0.355 0.390 0.355	0.343 0.3465 0.361 0.349 0.343 HOB X 0.9555 0.3575 0.3575 0.3575 0.37676 0.37676 0.362	0.9255 0.3925 0.3925 0.3255 0.3255 4250-4500K V 0.3325 0.34025 0.34025 0.35 0.337 0.335 0.337 0.335 0.337 0.335	0.346 0.3475 0.355 0.355 0.363 0.346 H1B x 0.38 0.387 0.387 0.387 0.397 0.397 0.397 0.397 0.393 0.393 0.393 0.393 0.393 0.393 0.393	0 384 0 388 0 385 0 385 0 381 4250-4500K V 0 389 0 37225 0 3700 0 383 0 385 3750-4000K V 0 39 0 39	0.339 0.348 0.348 0.346 0.348 0.345 0.338 HOO x 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351	0 347 0 351 0 355 0 33825 0 334 4520-4750K V 0 3425 0 355 0 34825 0 3425 V 4000-4250K V 0 36 0 37 0 37 0 375 0 375 0 375 0 375 0 375 0 375	0.34 0.341 0.349 0.3475 0.34 0.3475 0.34 H10 x 0.356 0.355 0.365 0.365 0.375 0.375 0.375 0.375	0.373 0.377 0.384 0.38 4500-4750K V 0.388 0.381 0.3845 0.37225 0.388 4000-4250K V 0.385 0.4 0.405 0.39	0.3445 0.246 0.283 0.283 0.281 0.3645 HOD X 0.36775 0.307 0.30	0.33625 0.361 0.365 0.3425 0.33825 4250-4500K V 0.3625	0.3475 0.249 0.357 0.355 0.3475 0.365 0.3475 H1D x 0.3625 0.363 0.37 0.3625 0.363 0.37 0.3625 0.363 0.37 0.3625 0.363 0.37 0.3630 0.37 0.3630 0.37 0.3630 0.37	0.377 0.381 0.388 0.384 4250-4500K V 0.37226 0.3855 0.3765 0.3765 0.37225 3750-4000K V 0.39 0.405 0.41 0.385
0.338 0.3448 0.3443 0.337 0.337 0.337 0.337 0.351 0.3515 0.3515 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645	0.321 0.334 0.33825 0.3225 0.321 4500-4750K V 0.33 0.34025 0.34025 0.3336 0.3336 0.335 4000-4250K V 0.35 0.36 0.36 0.37 0.38	0.34 0.3475 0.3485 0.3398 H1A × 0.363 0.363 0.355 0.3027 0.38 0.355 J1A × 0.3685 0.3716 0.383375	0.38 0.384 0.385 0.361 0.347 4500-4750K V 0.355 0.380 0.37225 0.385 4000-4250K V 0.3725 0.385 0.393	0.343 0.3445 0.351 0.349 0.343 HOB x 0.3656 0.35775 9.3040 0.3655 JOB X 0.37676 0.377676	0.9255 0.33925 0.3425 0.32 0.3255 0.3255 4250-4500K V 0.3336 0.34025 0	0.346 0.3475 0.355 0.355 0.356 0.359 0.346 H1B × 0.382 0.382 0.367 0.367 0.39 JJB 0.3823 0.3925 0.3935	0 384 0 388 0 385 0 351 4250-4500K V 0 389 0 37225 0 3760 0 383 0 350 3750-4000K 3750-4000K	0.339 0.339 0.348 0.348 0.348 0.348 0.351 0.351 0.357 0.357 0.351 0.351 0.351	0 347 0 351 0 3825 0 334 4500-4750K V 0 3425 0 3455 0 3455 0 3425 4000-4250K V 0 355 0 3425 0 3425	0.34 0.341 0.349 0.3475 0.3475 0.34 H1C x 0.355 0.355 0.365 0.3835 0.3835 0.3172 0.3172 0.3875	0.273 0.277 0.384 0.36 0.36 4500-4750K V 0.382 0.381 0.3845 0.27225 0.385 4000-4250K V 0.385 0.385	0.3445 0.346 0.383 0.383 0.381 0.3445 HOD 8 0.34775 0.307 0.3845 0.39775 0.39775 0.3775 0.3775 0.3775 0.3775	0.33625 0.361 0.355 0.3425 0.3425 0.33925 4250-4500K V 0.3625 0.359 0.3625 3750-4000K 3750-4000K 0.365 0.3625 0.3625	0.3475 0.349 0.357 0.355 0.3475 H1D × 0.305 0.305 0.373 0.37 0.305 0.373 0.375 0.38375 0.38375	0.377 0.381 0.388 0.384 0.384 4250-4500K V 0.37226 0.3855 0.39 0.3765 0.37225 3750-4000K V 0.39 0.406 0.41
0.338 0.2445 0.342 0.337 HGA x 0.249 0.3517 0.3515 0.3515 0.345 0.345 0.345 0.345 0.345 0.345 0.345 0.345 0.345	0.321 0.334 0.33825 0.3215 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.335 0.33 4000-4250K V 0.35 0.35 0.35	0.34 0.346 0.346 0.399 H1A x 0.363 0.355 0.	0.38 0.384 0.385 0.361 0.347 4500-4750K V 0.355 0.388 0.37225 0.385 4000-4250K V 0.37 0.385 0.3725 0.385 0.375 0.375	0.343 0.3465 0.361 0.349 0.343 HOB X 0.9555 0.3575 0.3575 0.3575 0.37676 0.37676 0.362	0.9255 0.33925 0.3425 0.32 0.3255 4250-4500K V 0.3336 0.3425 0.3425 0.35 0.327 0.355 0.350 0.37 0.365	0.346 0.3475 0.355 0.355 0.363 0.346 H1B x 0.38 0.387 0.387 0.387 0.397 0.397 0.397 0.397 0.393 0.393 0.393 0.393 0.393 0.393 0.393	0 384 0 388 0 385 0 351 4250-4500K V 0 389 0 37225 0 3760 0 383 0 350 3750-4000K 3750-4000K 0 383 0 375 0 375 0 375 0 395 0 395 0 395 0 395	0.339 0.348 0.348 0.346 0.348 0.345 0.338 HOO x 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351	0 347 0 351 0 355 0 33825 0 334 4520-4750K V 0 3425 0 355 0 34825 0 3425 V 4000-4250K V 0 36 0 37 0 37 0 375 0 375 0 375 0 375 0 375 0 375	0.34 0.341 0.349 0.3475 0.34 0.3475 0.34 H10 x 0.356 0.355 0.365 0.365 0.375 0.375 0.375 0.375	0.273 0.277 0.384 0.36 4500-4750K V 0.385 0.381 0.3845 0.37225 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385	0.3445 0.246 0.283 0.283 0.281 0.3645 HOD X 0.36775 0.307 0.30	0.33625 0.361 0.365 0.3425 0.33825 4250-4500K V 0.3625	0.3475 0.249 0.357 0.355 0.3475 0.365 0.3475 H1D x 0.3625 0.363 0.37 0.3625 0.363 0.37 0.3625 0.363 0.37 0.3625 0.363 0.37 0.3630 0.37 0.3630 0.37 0.3630 0.37	0.377 0.381 0.388 0.364 4250-4500K V 0.37226 0.3855 0.3765 0.3765 0.57225 3750-4000K V 0.39 0.406 0.41 0.385
0.338 0.3448 0.3448 0.337 H0A X 0.349 0.351 0.3575 0.345 0.345 0.345 0.345 0.345 0.345 0.345 0.345 0.345 0.345 0.344	0.321 0.334 0.33825 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3325 0.3335 0.335 0.335 0.355 0.38	0.24 0.2475 0.3485 0.399 H1A 2 0.363 0.385 0.3025	0.38 0.384 0.385 0.361 0.347 4500-4750K V 0.355 0.388 0.37225 0.385 4000-4250K V 0.37 0.385 0.3725 0.385 0.375 0.375	0.343 0.3445 0.351 0.351 0.349 0.342 0.3626 0.35775 0.362 0.3626 0.3655 0.3656 0.3656 0.3666 0.3676 0.3676 0.3676 0.3676 0.37425 0.37426	0.9255 0.33925 0.3425 0.32 0.3255 4250-4500K V 0.3336 0.3425 0.3425 0.35 0.327 0.355 0.350 0.37 0.365	0.346 0.3475 0.355 0.355 0.355 0.363 0.346 H1B x 0.383 0.3827 0.387 0.387 0.395 0.393375 0.395 0.395 0.395 0.3895 0.3895	0 284 0 288 0 285 0 285 0 285 0 285 0 285 0 285 0 325 0 37225 0 3760 0 289 0 3750 0 375 0 375 0 39 0 39 0 39 0 39 0 39 0 39 0 375 0 39 0 39 0 39 0 375 0 39 0 3	0.336 0.348 0.348 0.348 0.348 0.339 HOC x 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	0 347 0 351 0 3825 0 334 4500-4750K V 0 3425 0 355 0 3425 0 3425 4000-4250K V 0 36 0 37 0 37 0 375 0 385	0.34 0.341 0.347 0.347 0.347 0.347 0.34 H1C x 0.357 0.305 0.902 0.305 0.902 0.3172 0.3873 0.3873 0.3873 0.3873 0.3875	0.273 0.277 0.364 0.36 0.36 4500-4750K V 0.389 0.381 0.3655 0.37226 0.398 4000-4250K V 0.405 0.39 0.385 0.385 0.385 0.385 0.385 0.385	0.3445 0.346 0.383 0.383 0.383 0.381 0.3445 HOD X 0.36775 0.3945 0.39775 0.39775 0.39775 0.37675 0.3837 0.3837 0.3837 0.38676	0.33625 0.361 0.355 0.2425 0.33825 4250-4500K V 0.36525 0.355 0.3625 0.355 0.3625 0.355 0.3625 0.3750-4000K 0.376 0.376 0.385 0.365	0.3475 0.349 0.357 0.355 0.3475 0.355 0.3475 H1D x 0.365 0.373	0.377 0.381 0.388 0.364 4250-4500K V 0.37226 0.3855 0.39 0.3765 0.37225 3750-4000K V 0.39 0.406 0.41 0.385 0.39
0.238 0.2445 0.342 0.327 H0A x 0.249 0.35775 0.3555 0.345 0.345 0.3645 0.3685 0.37725 0.3685 0.37425 0.3645 N0A	0.321 0.334 0.33825 0.321 0.3325 0.321 4500-4750K V 0.33 0.3425	0.24 0.346 0.346 0.339 H1A x 0.383 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.3828 0.38385 0.38385 0.38385 0.38385	0.38 0.384 0.3851 0.347 4500-4750K Y 0.355 0.398 0.3720 0.389 0.355 4000-4250K Y 0.355 4000-4250K Y 0.355 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395	0.343 0.3445 0.3516 0.349 0.349 0.349 0.349 0.349 0.349 0.3515 0.3515 0.3515 0.3515 0.37676 0.37676 0.37676 0.37676 0.37676 0.37425	0.9255 0.33925 0.3425 0.32 0.3255 4250-4500K V 0.3335 0.3425 0.3425 0.350 0.350 0.350 0.350 0.355 0	0.346 0.3475 0.3475 0.353 0.346 0.353 0.346 0.367 0.367 0.367 0.367 0.367 0.367 0.37925 0.339375 0.33925 0.37925	0 384 0 388 0 385 0 351 4250-4500K V 0 389 0 37225 0 3760 0 383 0 3759-4000K 3759-4000K 0 383 0 3759-4000K 0 383 0 3759-4000K 0 375 0 385 0 385	0.336 0.348 0.348 0.348 0.348 0.348 0.338 HOC x 0.351 0	0 347 0 351 0 3525 0 334 4520 4750K V 0 3425 0 355 0 34525 0 34525 0 34525 0 34525 0 34525 0 365 0 37 0 36 0 37	0.34 0.341 0.347 0.347 0.347 0.347 0.34 H1C x 0.355 0.355 0.305 0.3025 0.307 0.37175 0.3875 0.3875 0.3875 0.37176 KIC x 0.395	0.273 0.377 0.384 0.36 0.36 4500-4750K V 0.389 0.381 0.3855 0.39225 0.385 4000-4250K V 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.385	0.3445 0.346 0.326 0.387 0.387 0.387 0.36776 0.36776 0.36776 0.36776 0.37676 0.37676 0.37676 0.37676 0.37676	0.33625 0.361 0.355 0.3425 0.33825 4250-4500K V 0.3625 0.365 0.	0.3475 0.349 0.357 0.355 0.3475 0.355 0.3475 0.365 0.3475 0.365 0.3675 0.370 0.3625 0.370 0.3625 0.370 0.382375 0.382375 0.382375 0.382375 0.382375	0.377 0.381 0.388 0.364 4250-4500K V 0.37225 0.3855 0.3765 0.37225 3750-4000K V 0.39 0.405 0.39 0.405 0.39 0.405 0.39 0.405 0.39 0.405 0.39 0.406 0.41
0.338 0.2448 0.343 0.337 H0A x 0.349 0.351 0.3517 0.3555 0.345 0.345 0.3645 0.37475 0.3645 0.37475 0.3646 0.36476	0.321 0.334 0.33825 0.321 0.3325 0.321 4500-4750K V 0.33 0.34025 0.34025 0.333 4000-4250K V 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	0.24 0.3476 0.3766 0.339 H1A x 0.363 0.355 0.355 0.355 0.355 0.355 0.37176 0.30375 0.30375 0.30385 0.30375 0.30385 0.30385 0.30385 0.30385 0.30385 0.30385	0.38 0.384 0.385 0.347 4500-4750K V 0.386 0.389 0.37225 0.355 4000-4250K V 0.389 0.355 4000-4250K V 0.389 0.37 0.385 0.37 0.385 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37 0.395 0.37	0.343 0.3445 0.351 0.381 0.349 0.343 HOB X 0.3555 0.3575 0.3575 0.37675 0.37675 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425	0.9255 0.33925 0.3425 0.32425 0.32 0.3255 4250-4500K V 0.3335 0.34625 0.34625 0.34625 0.350 0.327 0.3335 0.327 0.3335 0.327 0.3355 0.365 0.365 0.3750-4000K V 0.365 0.3750-4000K V 0.3750-3750	0.346 0.3475 0.355 0.355 0.355 0.363 0.346 H1B x 0.38 0.387 0.387 0.387 0.387 0.39	0 384 0 388 0 385 0 385 0 381 4259-4500K 0 389 0 37225 0 3700 0 383 0 385 3750-4000K V 0 375 0 395 0 395	0.339 0.348 0.348 0.348 0.348 0.345 0.338 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.351 0.352 0.3525 0.35	0 347 0 351 0 33825 0 334 4590-4759K V 0 3426 0 355 0 375 0 34525 0 34525 0 34525 0 34525 0 375 0 37	0.34 0.341 0.349 0.3475 0.34 H10 x 0.355 0.355 0.355 0.355 0.37175 0.37175 0.383370 0.37176 X 0.37176 0.383370 0.37176 X 0.383370 0.37176 0.383370 0.37176	0.273 0.277 0.384 0.38 0.386 0.386 4500-4750K V 0.388 0.381 0.3825 0.385 0.405 0.405 0.399 0.385 3500-3750K V 0.41	0.3445 0.346 0.326 0.383 0.383 0.381 0.3645 HOD x 0.36776 0.307	0.33625 0.361 0.365 0.3428 0.33825 4250-4500K V 0.34625 0.355 0.34625 0.355 0.34625 3750-4000K V 0.365 0.375 0.365 0.375 0.375 0.3745 0.3745 0.3745 0.335	0.3475 0.249 0.357 0.285 0.3475 0.285 0.3475 0.3625 0.3625 0.3633 0.37 0.3625 0.363375 0.3675 0.363375 0.3676 0.400 0.415	0.377 0.381 0.388 0.364 4250-4500K V 0.37226 0.3855 0.3750-4000K V 0.37225 3750-4000K V 0.39 0.405 0.41 0.385 0.39 3250-3500K V 0.41 0.415
0.338 0.2443 0.343 0.337 H0A x 0.349 0.351 0.3755 0.345 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645 0.3645	0.321 0.334 0.33825 0.2255 0.321 4500-4750K V 0.32 0.34025 0.34025 0.34025 0.330 4000-4250K V 0.35 0.35 0.35 0.35 0.35 0.365 0.365 0.365 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.38	0.24 0.2475 0.3485 0.398 0.399 H1A x 0.363 0.355 0.3025 0.3025 0.355 0.3025 0.355 0.3776 0.383375 0.37826 0.37826 0.399 K1A x 0.390 0.390 0.390 0.390	0.38 0.384 0.385 0.386 0.386 0.347 4500-4750K V 0.386 0.398 0.37225 0.389 0.3755 4000-4250K V 0.37 0.386 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.37 0.385 0.390 0.37	0.343 0.3445 0.351 0.349 0.349 0.349 0.349 0.3575 0.3575 0.3575 0.3040 0.362 0.37625 0.37625 0.37645 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425	0.9255 0.33925 0.3425 0.32 0.3255 4250-4500K V 0.3336 0.3425 0.355	0.346 0.3475 0.355 0.355 0.356 0.356 0.358 0.346 H1B X 0.382 0.37 0.367 0.367 0.39 J1B X 0.3735 0.3935 0.37925 XXB 0.37925 0.39370 0.4030 0.4030	0 284 0 288 0 285 0 285 0 285 0 285 0 285 0 285 0 325 0 3760 0 389 0 375 0 375 0 375 0 39 0 3	0.330 0.339 0.346 0.346 0.346 0.348 0.359 0.350 0.3575 0.351 0.3605 0.36776 0.3685 0.37670 0.3685 0.37670 0.3685 0.37670 0.3685	0 347 0 381 0 3825 0 334 4500-4750K V 0 3425 0 355 0 355 0 3425 4000-4250K Y 4000-4250K Y 0 37 0 385 0 395 0 395	0.34 0.347 0.347 0.347 0.3475 0.3475 0.3475 0.345 0.3557 0.365 0.3825 0.38375 0.3875	0.273 0.277 0.364 0.36 0.364 0.38 4500-4750K V 0.389 0.381 0.3655 0.37226 0.398 4000-4250K V 0.405 0.39 0.385 0.385 0.40 0.405 0.39 0.395 0.395 0.395 0.41 0.415	0.3445 0.346 0.383 0.283 0.281 0.3445 0.35176 0.30776 0.30775 0.30775 0.37975 0.37	0.33625 0.361 0.355 0.3425 0.3425 0.33925 4250-4500K V 0.3625 0.359 0.363 0.35 0.3625 3750-4000K 0.365 0.376 0.365 0.376 0.365 0.376 0.365 0.376 0.376 0.365 0.376 0.376 0.376 0.376 0.376 0.376 0.376 0.376 0.376 0.376 0.376 0.376 0.376 0.376 0.376 0.376 0.376 0.3776 0.3	0.3475 0.349 0.357 0.355 0.3475 0.355 0.3475 0.365 0.3475 0.365 0.373 0.373 0.370 0.3825 0.373 0.3825 0.41 0.38376 0.40 0.40 0.40 0.40 0.40 0.40 0.40 0.4	0.377 0.381 0.388 0.384 4250-4500K V 0.37226 0.3855 0.39 0.3765 0.37255 3750-4000K V 0.39 0.406 0.41 0.385 0.39 3250-3500K 0.41 0.41 0.42
0.338 0.3443 0.337 H0A x 0.349 0.351 0.3575 0.3555 0.349 0.3555 0.349 0.3573 0.3645 0.37925	0.321 0.334 0.33825 0.321 0.33825 0.321 4500-4750K V 0.33 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.3425 0.355	0.34 0.346 0.346 0.339 H1A x 0.363 0.355 0.355 0.355 0.355 0.355 0.355 0.355 0.3685 0.3685 0.3775 0.3885 0.3885 0.3885 0.3885 0.3885 0.3885 0.3885 0.3885	0.38 0.384 0.3851 0.347 4500-4750K V 0.355 0.398 0.3720 0.289 0.355 4000-4250K V 0.355 0.390 0.377 0.395 0.377 0.395 0.377 0.390 0.377	0.343 0.3445 0.3461 0.3461 0.349 0.347 0.3656 0.35775 0.3622 0.35555 0.37676 0.37676 0.37676 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425 0.37425	0.9255 0.33925 0.3425 0.32 0.3255 0.3255 0.3255 0.3255 0.3255 0.327 0.3355 0.327 0.3355 0.365 0.365 0.365 0.365 0.365 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.37	0.346 0.3475 0.3455 0.355 0.355 0.356 0.346 H1B x 0.38 0.367 0.367 0.39 J1B x 0.37925 0.393275 0.395 0.37925 K1B 0.403 0.409 0.4218 0.4218	0 384 0 385 0 385 0 385 0 385 0 385 0 385 0 385 0 389 0 37225 0 389 0 389 0 389 0 395 0 39	0.336 0.348 0.348 0.348 0.348 0.348 0.351 0.	0 347 0 351 0 355 0 33825 0 334 4520-4750K V 0 3425 0 3455 0 3455 0 3455 0 3425 V 0 37 0 37 0 37 0 38 0	0.341 0.349 0.349 0.3475 0.349 0.3475 0.340 H1C x 0.3565 0.3657 0.3656 0.3875 0.38775 0.37175 0.37176 0.37176 0.37176 0.37176 0.37176 0.37176 0.37176 0.37176 0.37176 0.37176 0.37176	0.373 0.277 0.384 0.38 0.384 0.38 4500-4750K V 0.389 0.381 0.3845 0.37225 0.388 0.405 0.405 0.389 0.385 0.405 0.395 0.411 0.415 0.415	0.3445 0.346 0.326 0.383 0.383 0.383 0.381 0.3445 0.3465 0.36775 0.36775 0.3665 0.37675 0.37926 0.37675 0.37926 0.37675 0.37926 0.37675 0.37926 0.37675 0.37926 0.37675 0.37926 0.37675 0.37926 0.37675 0.37926 0.37675 0.37926 0.37675 0.37926 0.37675 0.37926 0.37675 0.37926 0.37675 0.37926 0.37675	0.33625 0.361 0.355 0.3425 0.33825 4250-4500K V 0.3625 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.365 0.375 0.365 0.375 0.365 0.375 0.365 0.375 0.365 0.375 0.365 0.375 0.365 0.375 0.365 0.375 0.365 0.375 0.365 0.375 0.365 0.375 0.365 0.375 0.375 0.375 0.385 0.375 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 0.385 0.385 0.375 0.385 0.385 0.385 0.385 0.375 0.385 0.	0.3475 0.349 0.357 0.355 0.3475 0.355 0.3475 0.365 0.3675 0.363 0.37 0.3625 0.3675 0.383375	0.377 0.381 0.388 0.364 4250-4500K V 0.37226 0.3855 0.3765 0.3765 0.37225 3750-4000K V 0.39 0.405 0.39 0.410 0.395 0.399 3250-3500K V 0.41 0.415 0.415 0.412 0.405
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0.338 0.2448 0.2449 0.337 H0A x 0.249 0.351 0.3515 0.37275 0.37275 0.37275 0.3665	0.321 0.334 0.33825 0.321 0.33825 0.321 4500-4750K V 0.33 0.3425 0.34025 0.34025 0.3235 0.350 0.355 0.365 0.365 0.37 0.37 0.37 0.3745 0.38 0.37 0.3745 0.38 0.37 0.3745 0.38 0.37 0.3745 0.38 0.37 0.3745 0.38 0.37 0.3745 0.380 0.395 0.300 0.300 0.300 0.300 0.300	0.24 0.2470 0.3768 0.339 H1A x 0.363 0.355 0.3622 0.322 0.328 0.3553 J1A x 0.3685 0.37176 0.389375 0.3826 K1A x 0.39 0.3986 0.409 0.403 0.38 0.409 0.403 0.42725 0.44200	0.38 0.384 0.3851 0.347 4500-4750K V 0.385 0.389 0.37225 0.389 0.37225 0.389 0.3750 0.395	0.343 0.3445 0.351 0.349 0.349 0.349 0.349 0.3575 0.3575 0.3575 0.3040 0.362 0.3765 0.	0.9255 0.33925 0.3425 0.32425 0.32 0.3255 4250-4500K V 0.3335 0.3425 0.3425 0.3425 0.3425 0.3425 0.350 0.350 0.350 0.350 0.350 0.355 0.365 0.365 0.370 0.355 0.365 0.370 0.355 0.370 0.355 0.370 0.370 0.385 0.3740 0.379 0.3880 0.304	0.346 0.3475 0.3475 0.3455 0.353 0.346 H1B	0 384 0 385 0 385 0 385 0 385 0 385 0 385 0 385 0 386 0 37225 0 3760 0 383 0 360 0 375 0 38 0 375 0 38 0 375 0 38 0 375 0 38 0 385 0 40 0 4047 0 389 0 385	0.339 0.348 0.348 0.348 0.348 0.348 0.345 0.338 0.351	0 347 0 351 0 33825 0 334 4500-4759K V 0 3426 0 355 0 305 0 34825 0 3425 4000-4250K V 0 38 0 37 0 3	0.34 0.341 0.349 0.3475 0.349 0.3475 0.34 H1C x 0.3557 0.305 0.3055 0.3055 0.3055 0.3055 0.3075 0.30	0.373 0.277 0.384 0.38 0.386 0.388 0.381 0.389 0.381 0.3825 0.385 0.40 0.415 0.385 0.41 0.415 0.41 0.435 0.41 0.415 0.41 0.415 0.41 0.415 0.41 0.415 0.41 0.415 0.41 0.415 0.41 0.415 0.41 0.415 0.41 0.415 0.41 0.385	0.3445 0.346 0.346 0.383 0.383 0.383 0.381 0.3445 0.36776 0.390 0.397 0.3645 0.3772 0.3645 0.3772 0.37925 0.37	0.33625 0.361 0.365 0.3425 0.3425 0.33825 4250-4500K V 0.34625 0.355 0.365 0.365 0.365 0.365 0.3750-4000K V 0.365 0.3750-4000K V 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745 0.3850 0.390 0.41500	0.3475 0.349 0.357 0.355 0.3475 0.355 0.3475 0.355 0.3475 0.3625 0.373 0.373 0.370 0.39325 0.400	0.377 0.381 0.388 0.384 4250-4500K 7 0.3720E 0.3855 0.37225 0.399 0.405 0.41 0.3855 0.39 0.406 0.41 0.3855 0.39 0.406 0.41 0.405 0.41 0.405 0.41 0.415 0.42 0.405 0.41 0.405 0.41 0.415 0.42 0.405 0.41
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0.338 0.3443 0.3443 0.337 H0A X 0.349 0.3511 0.3555 0.345 0.3555 0.345 JOA X 0.3645 0.37475 0.3655 0.37475 0.3656 0.37475 0.3646 0.37475 0.3846 K0A X 0.3947 0.395 0.394 0.305 0.340 0.305 0.340 0.305 0.340 0.305 0.340 0.305	0.321 0.324 0.334 0.3325 0.325 0.321 4500-4750K V 0.33 0.34025 0.34025 0.34025 0.3395 0.33 4000-4250K V 0.35 0.35 0.35 0.35 0.35 0.35 0.35 0.35	0.34 0.347 0.348 0.339 H1A x 0.363 0.363 0.365 0.362 0.363 0.365 0.3637 0.3637 0.3637 0.3637 0.3637 0.37776 0.36327 0	0.38 0.384 0.385 0.386 0.386 0.347 4500-4750K V 0.355 0.398 0.37225 0.389 0.3755 4000-4250K V 0.37 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.375 0.395 0.395 0.375 0.385 0.385 0.385 0.385 0.385 0.385 0.385 0.3870 0.370300 0.370300 0.370300 0.370300 0.370300 0.370300 0.370300 0.370300 0.370300 0.370300 0.370300 0.370300 0.370300 0.370300	0.343 0.3445 0.3451 0.3461 0.349 0.343 0.3450 0.3555 0.3575 0.3575 0.362 0.37676 0.362 0.37676 0.37426 0.37676 0.384 0.37426	0.9255 0.33925 0.3425 0.3255 0.3255 0.3255 0.3255 0.3255 0.3255 0.3255 0.335 0.337 0.3335 0.337 0.3335 0.3625 0.365 0.37 0.3750-4000K V V 0.365 0.375 0.375 0.370 0.375 0.385	0.346 0.3475 0.3475 0.3485 0.3485 0.383 0.346 H1B x 0.38 0.387 0.387 0.387 0.387 0.387 0.387 0.397 0	0 384 0 388 0 385 0 385 0 385 0 385 0 385 0 386 0 389 0 382 0 383 0 385 3750-4000K V 0 383 0 385 0 385 0 386 0 396 0 397 0 398 0 385 0 386 0 397 0 398 0 386 0 397 0 398 0 387 0 397 0 398	0.339 0.348 0.348 0.348 0.348 0.348 0.345 0.338 0.351	0 347 0 381 0 3825 0 334 4500-4750K V 0 3426 0 355 0 375 0 3455 0 3455 0 3455 0 3455 0 375 0 377 0 375 0 375 0 375 0 377 0 375 0 377 0 375 0 377 0 4150 0 0 397 0 41700 0 3990 0 397 0 397 0 397 0 41700 0 397 0	0.34 0.341 0.347 0.347 0.347 0.3475 0.34 H10 x 0.355 0.355 0.355 0.355 0.37176 0.37176 K10 x 0.383375 0.37176 0.383375 0.37176 K10 x 0.383375	0.273 0.277 0.384 0.38 0.386 0.386 0.381 0.3850 0.3825 0.381 0.3825 0.388 0.381 0.3825 0.388 0.381 0.3825 0.405 0.405 0.385 0.41 0.415	0.3445 0.346 0.326 0.383 0.383 0.381 0.3645 0.36776 0.36776 0.36776 0.36776 0.37926 0.37926 0.37926 0.37926 0.37926 0.387 0.37676 0.37926 0.399 0.403 0.416 0.417 0.399 0.403 0.416 0.417 0.399	0.33625 0.361 0.365 0.3425 0.3425 0.33825 4250-4500K V 0.34625 0.350 0.35 0.3625 0.3625 0.3625 0.3750 0.376 0.39 0.3745 0.385 0.39 0.3745 0.385 0.39 0.3745	0.3475 0.249 0.357 0.255 0.3475 0.365 0.3475 0.365 0.3675 0.365 0.367 0.3625 0.367 0.367 0.367 0.367 0.367 0.367 0.367 0.367 0.367 0.367 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403 0.403	0.377 0.381 0.388 0.384 4250-4500K V 0.37226 0.3855 0.3766 0.37225 3750-4000K V 0.39 0.405 0.41 0.385 0.39 3250-3500K V 0.41 0.42 0.405 0.41 0.42 0.405 0.41 0.42 0.405 0.41 0.417 0.42 0.405 0.41 0.417 0.425 0.405 0.41 0.417 0.417 0.43800 0.41700 0.41700 0.41700 0.41700
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Note: It maintains a tolerance of x, y ±0.005



Part Number: 62-217BUW1C1

CIE Chromaticity Diagram

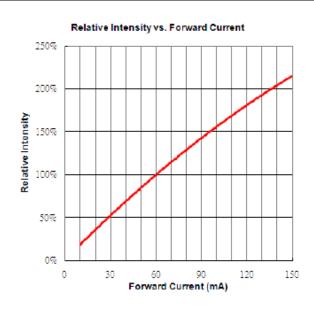


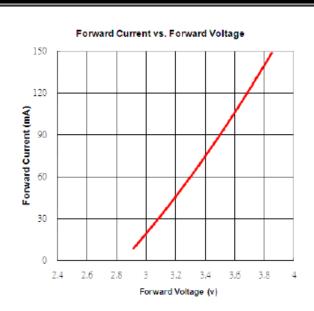
4-BRIGHT A-BRIGHT INDUSTRIAL CO., LTD.

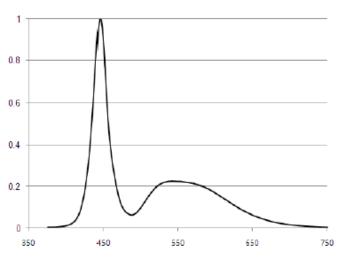
SURFACE MOUNT LED LAMPS

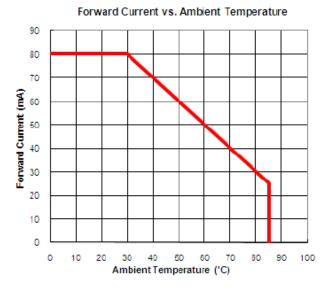
Part Number: 62-217BUW1C1

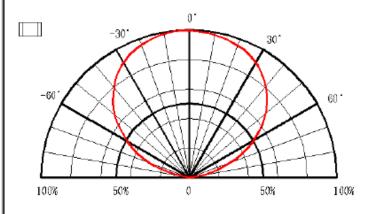
Typical Electro-Optical Characteristic Curves

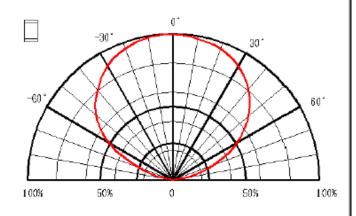








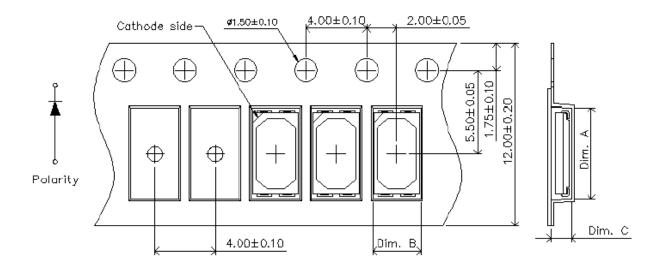




Part Number: 62-217BUW1C1

Packaging Tape, Reel, and Packing Model

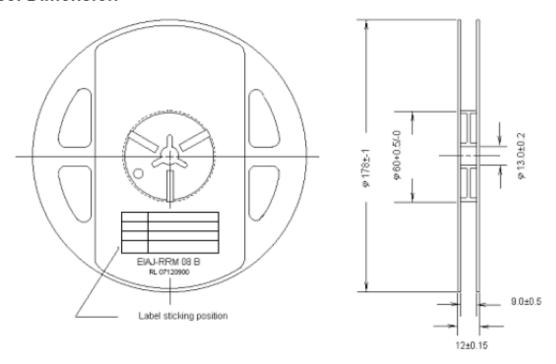
Tape Dimension



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: 62-217BUW1C1

Precautions For Use

1. Over-current proof

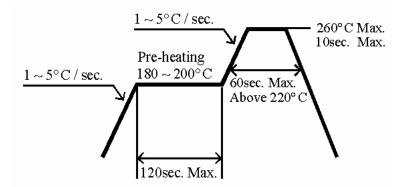
Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen).

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.