

PF25.2-C16-S9XX-UK-B



Product features (per segment)

PCB dimensions	140mm x 14mm (total: 25'200mm x 14mm)
Material	Flex PCB Print
Adhesive tape	3M VHB 9460, on rear side
Colour temperature	2700K / 3000K / 4000K / 5000K / 5700K / 6500K
Colour rendering CRI	Ra >90, R9 >50
LED	1 x 16 Samsung LM281B+ PRO S90 (VK-RANK) LED in series (16 pcs.), LM80 tested
Connections	4 x Löt pads (+, -)
Beam angle	120°
Light source type	NDSL
XLMF	> 96% (binning condition LED, 55°C)
SF (Survival factor)	1
Warranty	5 years (see *Note, page 3)

Photometric data (per segment)

CCT (K)	CRI (Ra)	If (mA)	Uf typ. (V) ³	P typ. (W) ¹	ΣFlux (lm) ²	ΣFlux (lm) ²	Efficacy (lm/W)	Energyclass ⁴
			Tc 40°C		Tc 25°C	Tc 40°C	Tc 40°C	Tc 40°C
2700	>90 R9>50	30	42.6	1.28	244	234	183	C
		75	44	3.30	591	568	172	D
		100	44.6	4.50	773	743	165	D
		120	45.1	5.4	913	892	165	D
3000	>90 R9>50	30	42.6	1.28	247	242	189	C
		75	44	3.30	600	586	178	C
		100	44.6	4.50	785	767	170	D
		120	45.1	5.4	927	906	168	D
4000	>90 R9>50	30	42.6	1.28	262	256	200	B
		75	44	3.30	637	622	188	C
		100	44.6	4.50	833	813	181	C
		120	45.1	5.4	984	961	178	C
6500	>90 R9>50	30	42.6	1.28	255	249	195	C
		75	44	3.30	618	604	183	C
		100	44.6	4.50	809	790	176	C
		120	45.1	5.4	956	933	173	D

¹ Power tolerances Pon 10%. Measurement uncertainty +/-5%. Values based on mean value of AZ LED Bin

² Lum Flux Tolerances of +/-15%. Lumens are based on extrapolation of individual LEDs.

³ Values based on AZ Bin at Tc 40°C. Voltage tolerance +/- 5%.

⁴ Only the coloured class per product is relevant for the Simpex Electronic energy label.

Technical data (per segment)

Rated voltage	Typ. 44VDC, @40°C
Rated current LED¹	Typ. 0.075A, max. 0.15A (total: typ. 9.2A, max. 27A)
Operating voltage	41V - 48V
Ambient temperature range	-35°C ... +50°C
Operating temperature range¹	Max. -20°C ... +75°C (am Tc-Punkt)
LED binning	MacAdam3, @150mA/LED
Photobiological safety	According to IEC 62471: exempt
Blue light hazard	According to IEC TR 62778: pass
Standards	EN IEC 62031
IP protection class	IP00

¹ Exceeding the permitted operating current & operating temperature leads to an overload of the module. This can lead to a strong reduction of the service life up to destruction.

*Note: Simpex is only responsible for the product itself and not for any consequential damage or costs. Any warranty requirements must be discussed before the project. The general terms and conditions of Simpex Electronic AG apply.

Lifetime data

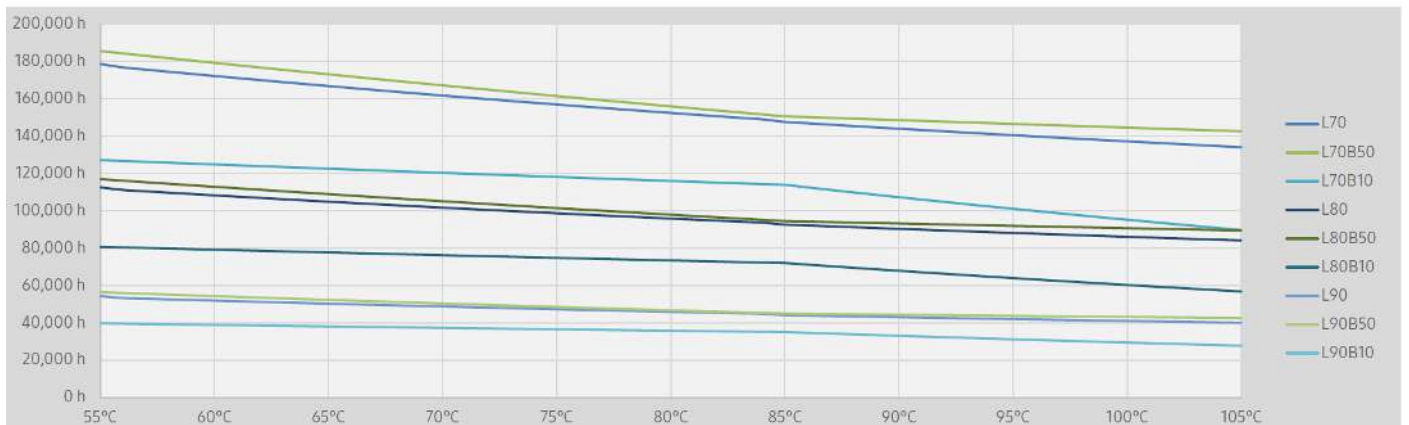
Reported Values

mA	Ts	Tj	L70	L70B50	L70B10	L80	L80B50	L80B10	L90	L90B50	L90B10
200mA	55°C	70°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000
200mA	60°C	75°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	52,000	54,000	39,000
200mA	65°C	80°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	50,000	52,000	38,000
200mA	70°C	85°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	49,000	50,000	37,000
200mA	75°C	90°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	47,000	49,000	37,000
200mA	80°C	95°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	46,000	47,000	36,000
200mA	85°C	100°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	44,000	45,000	35,000
200mA	90°C	105°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	43,000	44,000	33,000
200mA	95°C	110°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	42,000	44,000	31,000
200mA	100°C	115°C	>60,000	>60,000	>60,000	>60,000	>60,000	>60,000	41,000	43,000	29,000
200mA	105°C	120°C	>60,000	>60,000	>60,000	>60,000	>60,000	57,000	40,000	43,000	28,000

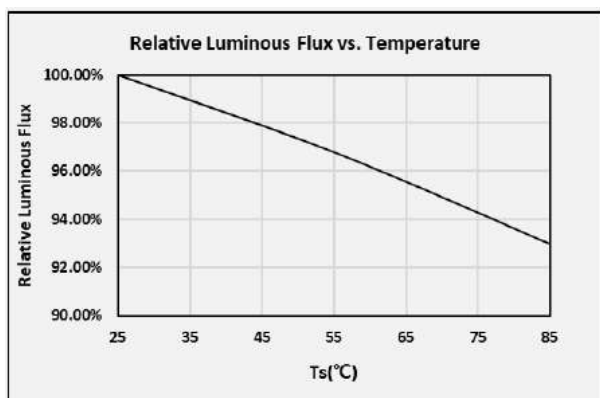
Calculated Values

mA	Ts	Tj	L70	L70B50	L70B10	L80	L80B50	L80B10	L90	L90B50	L90B10
200mA	55°C	70°C	179,000	186,000	127,000	113,000	117,000	81,000	54,000	56,000	40,000
200mA	60°C	75°C	172,000	179,000	125,000	108,000	113,000	79,000	52,000	54,000	39,000
200mA	65°C	80°C	167,000	173,000	123,000	105,000	109,000	78,000	50,000	52,000	38,000
200mA	70°C	85°C	162,000	167,000	120,000	102,000	105,000	76,000	49,000	50,000	37,000
200mA	75°C	90°C	157,000	161,000	118,000	99,000	101,000	75,000	47,000	49,000	37,000
200mA	80°C	95°C	152,000	156,000	116,000	96,000	98,000	73,000	46,000	47,000	36,000
200mA	85°C	100°C	148,000	151,000	114,000	93,000	94,000	72,000	44,000	45,000	35,000
200mA	90°C	105°C	144,000	149,000	107,000	90,000	93,000	68,000	43,000	44,000	33,000
200mA	95°C	110°C	140,000	147,000	101,000	88,000	92,000	64,000	42,000	44,000	31,000
200mA	100°C	115°C	137,000	145,000	95,000	86,000	91,000	60,000	41,000	43,000	29,000
200mA	105°C	120°C	134,000	143,000	90,000	84,000	89,000	57,000	40,000	43,000	28,000

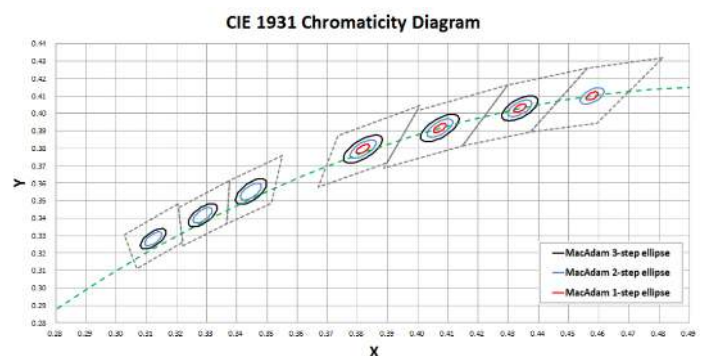
Graphic TM21 Projections



Helligkeit / Temperatur

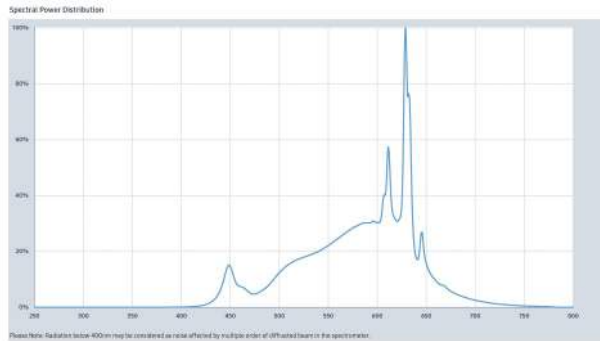


Color Bin



Spectrums

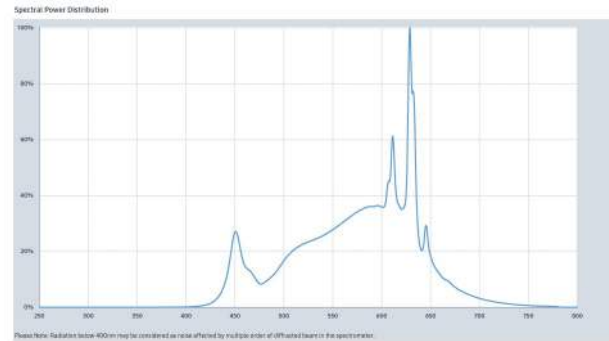
Samsung MPL 2835
LM281B+ PRO S90 VJ, S90, 2700K



Samsung LED Lighting DHEA

2023-01-10

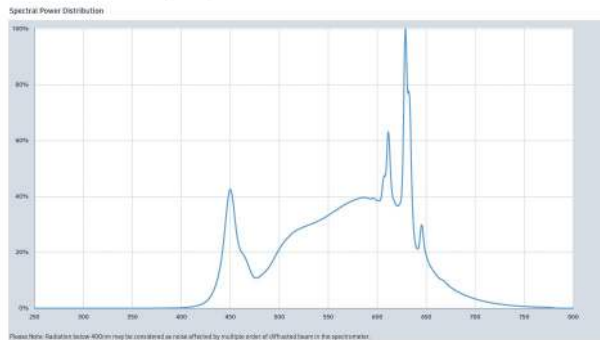
Samsung MPL 2835
LM281B+ PRO S90 VK, VL, S90, 3000K



Samsung LED Lighting DHEA

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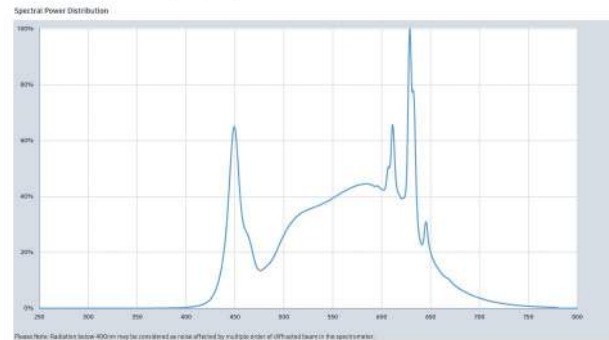
Samsung MPL 2835
LM281B+ PRO S90 VJ, S90, 3500K



Samsung LED Lighting DHEA

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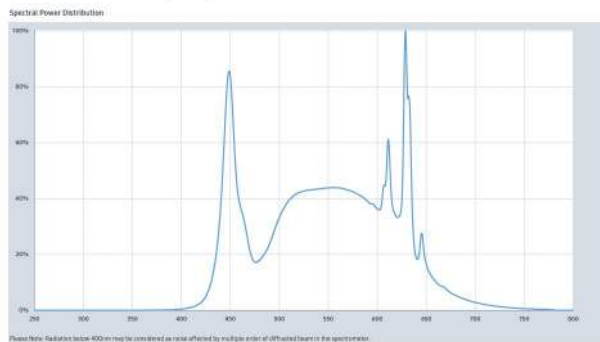
Samsung MPL 2835
LM281B+ PRO S90 VK, VL, S90, 4000K



Samsung LED Lighting DHEA

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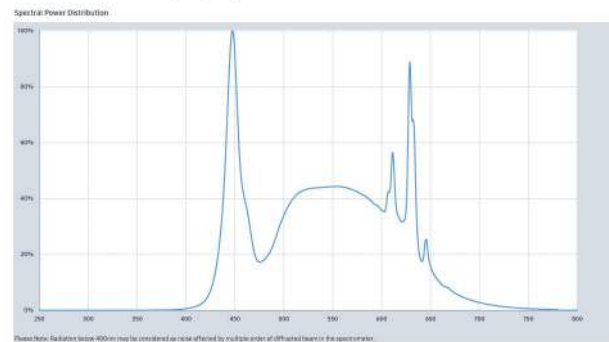
Samsung MPL 2835
LM281B+ PRO S90 VJ, S90, 5000K



Samsung LED Lighting DHEA

2023-01-10

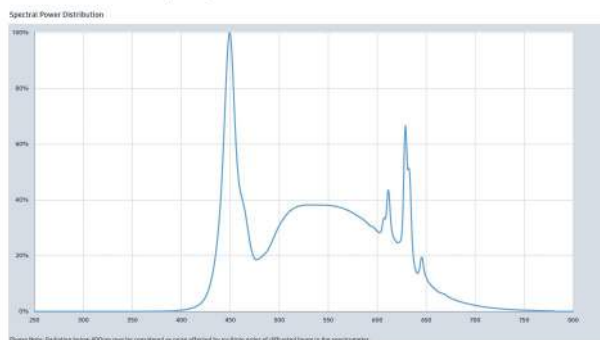
Samsung MPL 2835
LM281B+ PRO S90 VK, VL, S90, 5700K



Samsung LED Lighting DHEA

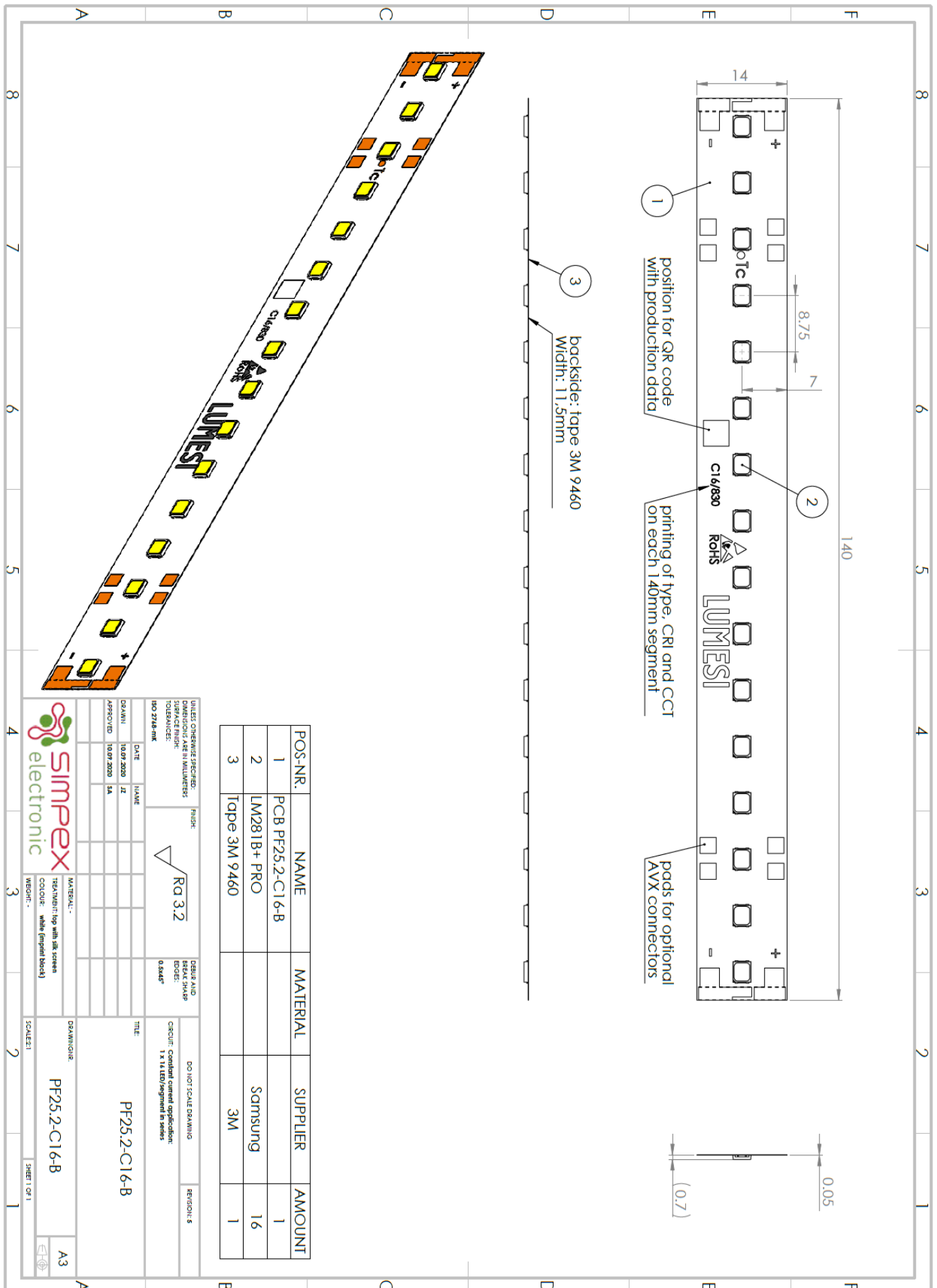
2023-01-10

Samsung MPL 2835
LM281B+ PRO S90 VJ, S90, 6500K



Samsung LED Lighting DHEA

2023-01-10



FLEX strips Processing regulations & safety instructions

The QR code contains the current processing regulations & safety instructions.

