

Reference Design Sheet – L513A-RGB3030 (RGBW LES18)

Performance Specifications:

Output	Lumens [lm]	Efficacy [lm/W]	Wattage [W]
Standard	2160	87	24.8
High	3310	85	38.9

Note: All performance measurements taken @ 3000K, 100% intensity, 25°C ambient with ARK-IR-ST-LES18 and no diffuser in use

Calibrated CCT Specs:

CCT [K]	Typical CRI
3000	96
3500	92
4000	89

Diffuser Transmittance:

Diffuser	Transmittance
ARK-DF-SF2	88
ARK-DF-SF4	77
ARK-DF-SF6	70
ARK-DF-SF8	64

Temperature Conditions:

Output	Max T [°C]
Standard Output Tc	85
High Output Tc	85
Environment Ta	40

Note: Temperature conditions applicable for 3000K, 100% intensity

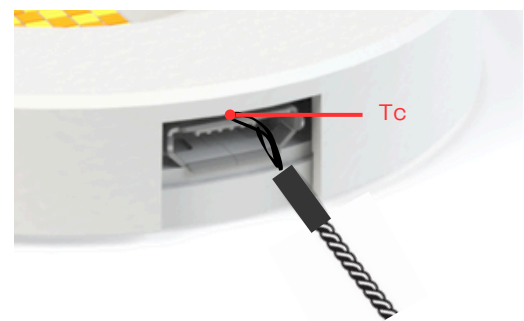


Figure 1 - Tc is measured on the metal sleeve of the micro-USB programming port. To measure Tc, insert thermal probe between micro-USB and top encasement of the ORB controller as shown.

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Recommended Thermal Management Specifications:

Standard Output:

Thermal Interface Material: Thermal paste – PN: TC3-1G or equivalent. Alternatively, 18x18mm phase change thermal pad – PN: ARK-TM-PC1-1818
Heat Sink: Anodized aluminum. Dissipated power(W): 48 – Thermal Resistance (°C/W): 1.1

High Output:

Thermal Interface Material: Thermal paste – PN: TC3-1G or equivalent.
Heat Sink: Anodized aluminum. Dissipated power(W): 57 – Thermal Resistance (°C/W): 0.9

Contact Arkalumen for validation of any other thermal interface materials. The use of gallium based paste is not recommended.

System Inclusions:

DMX/RDM

Order Code	LoDA	ORB	Cable	Inner Reflector	Diffuser/Holder	Firmware
Z513A3030-VA1-18-X-4010	L513A-RGB3030	ORB5-VA	ARK-C1-5A-30	ARK-IR-ST-LES18	ARK-RH-LA*	4010
Z513A3030-VA1-18-4-4010	L513A-RGB3030	ORB5-VA	ARK-C1-5A-30	ARK-IR-ST-LES18	ARK-DF-SF4	4010

Casambi

Order Code	LoDA	ORB	Cable	Inner Reflector	Diffuser/Holder	Firmware
Z513A3030-VWC1-18-X-4010	L513A-RGB3030	ORB5-VWC	ARK-C1-2A-30	ARK-IR-ST-LES18	ARK-RH-LA*	4010
Z513A3030-VWC1-18-4-4010	L513A-RGB3030	ORB5-VWC	ARK-C1-2A-30	ARK-IR-ST-LES18	ARK-DF-SF4	4010

**When selecting a system without a diffuser, an inner reflector holder (RH) will be included
Other system combinations available (alternative diffusers, cables). Contact Arkalumen for all options.