



Kitron

Your ambition. Our passion.

LCA – Life Cycle Analysis

Do you want to expand your product's lifetime?

Very often product's lifetime is affected by the individual electronics components availability on the market. Obsolete, custom made and other high-risk components can cause production delays, extra costs and even unwanted production termination. So there is an absolute need for every company to monitor and predict the life cycle of all the components used in their products.

Kitron provides services to identify potential risks. We run life cycle analysis (LCA) for provided Bill of Materials (BOM) to identify high-risk components which are not recommended for new designs. Even more, we suggest replacement components where it is necessary.

Fragment from LCA report

Line No	Part Description	Manufacturer	Manufacturer Part Number	Life Cycle Status	Single Source?	Second Source Suggestion	High Risk Components
1	INDUCTOR 2.2UH 30% 5.5A SHIELD 6X6 SMD	TDK Corp	VLC6045T-2R2N	Obsolete (Dec 30, 14)	Yes	Murata - B1015AS-2R2N	
2	TRANS MOSFET NCH SINGLE 60V SOT323	NXP Semiconductors	2N7002PW,115	NRND	Yes	On Semi - 2V7002WT1G	
3	RES 1K2 1% 0.25W 1206	Bourns Inc	CR1206FX1201ELF	Active	No	-	
		Koa Corporation	RK73H2BTTD1201F	Active	No	-	
4	TRANS MOSFET N-CH 200V 7A 40W TO252-3	Infineon Technologies	SPD07N20GBTMA1	LTB (Apr 15, 17)	Yes	NXP - PHD9NQ20T,118	
5	LED WHITE 56LM 6500K SMD4	Osram	GW JDSRS1.EC-FUGQ-5C5D-L1N2	Active	Yes	Osram - GW JDSRS1.EC-FUGQ-5C7E-L1N2	5C5D color bin is not standard, you might face supply problems. We recommend to use GW JDSRS1.EC-FUGQ-5C7E-L1N2 instead.

LCA report includes:

- Components Life Cycle status (Active, Obsolete, LTB Date, NRND).
- Single source line identification.
- Second source alternative suggestions.
- High-risk components identification.
- Graphic distribution representation.
- Documented Technical Report can be delivered in optional meeting format.

LCA enables

- Control life cycle for the new designs.
- Avoid costly production stops.
- Early warnings enable obsolete planning.
- Define last time buy strategies.

The collage shows three overlapping pages from an LCA report. The top page is the title page with the Kitron logo and 'LCA Report' text. The middle page is a table titled 'Component Life cycle analysis' with columns for 'Customer + Product', 'Manufacturer', 'Manufacturer Part Number', 'Life Cycle Status', 'Single Source?', and 'Second Source Suggestion'. The bottom page is a graph titled 'Product lifecycle curve' showing a bell-shaped curve with stages: INTRODUCTION, GROWTH, MATURITY, DECLINE, and OBSOLESCENCE. A red square on the curve is labeled 'Discontinue'. Below the graph is a table for 'Component lifecycle curve in detail' with columns for 'Manufacturer', 'Manufacturer Part Number', 'Life Cycle Status', and 'Second Source Suggestion'.