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## Low Profile, High Current IHLP® Inductors



Manufactured under one or more of the following:  
**US Patents; 6,198,375/6,204,744/6,449,829/6,460,244.**  
 Several foreign patents, and other patents pending.

STANDARD ELECTRICAL SPECIFICATIONS					
L <sub>0</sub> INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) <sup>(3)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(4)</sup>	SRF TYP. (MHz)
0.22	1.60	1.71	32.0	43.0	104
0.33	2.40	2.57	25.0	32.0	101
0.47	3.11	3.33	21.5	35.0	77
1.0	7.80	8.35	13.7	29.0	51
1.5	12.40	13.30	11.0	24.0	42
2.2	19.00	20.30	9.0	21.0	30
3.3	25.60	27.40	7.2	12.0	27
4.7	32.00	34.20	6.6	10.5	25
5.6	34.70	37.20	6.3	10.0	21
6.8	46.10	49.30	5.3	9.5	19
8.2	55.40	59.30	4.8	9.5	16
10.0	66.50	71.20	4.7	8.2	15

**Notes**

- (1) All test data is referenced to 25 °C ambient
- (2) Operating temperature range -55 °C to +125 °C
- (3) DC current (A) that will cause an approximate ΔT of 40 °C
- (4) DC current (A) that will cause L<sub>0</sub> to drop approximately 20 %
- (5) The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

**FEATURES**

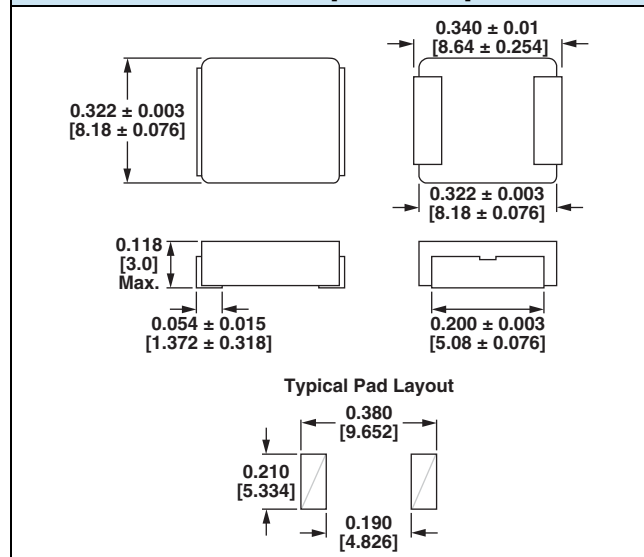
- Shielded construction
- Excellent DC/DC energy storage up to 5 MHz. Filter inductor applications up to SRF (see “Standard Electrical Specifications” table)
- Operating temperature up to 125 °C
- Lowest DCR/μH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
 COMPLIANT  
 HALOGEN  
**FREE**  
**GREEN**  
 (5-2008)

**APPLICATIONS**

- PDA/notebook/desktop/server applications
- High current POL converters
- Low profile, high current power supplies
- Battery powered device
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)

**DIMENSIONS** in inches [millimeters]

**DESCRIPTION**

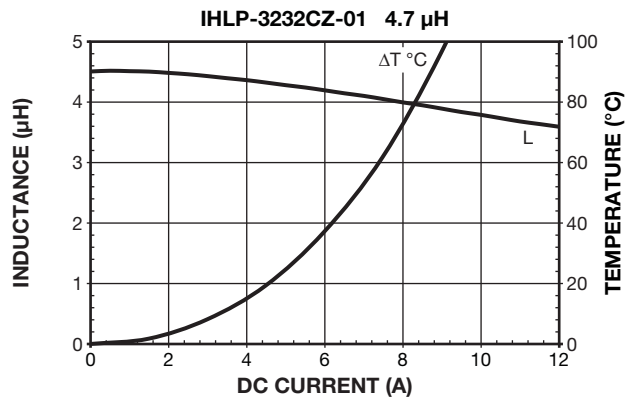
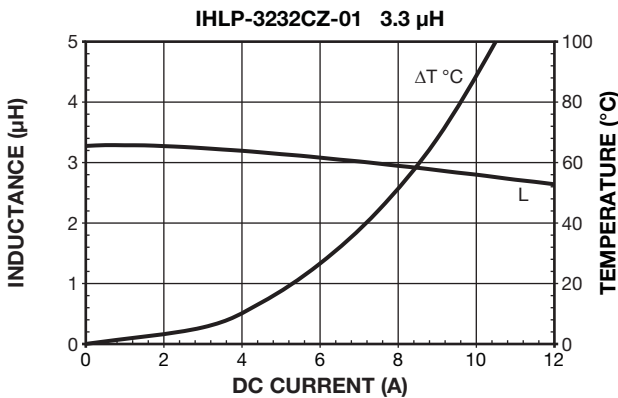
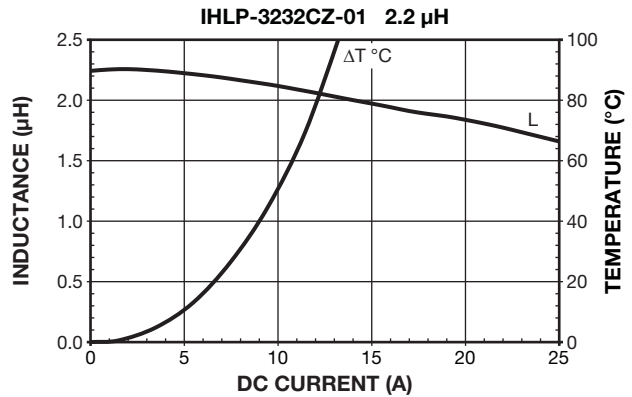
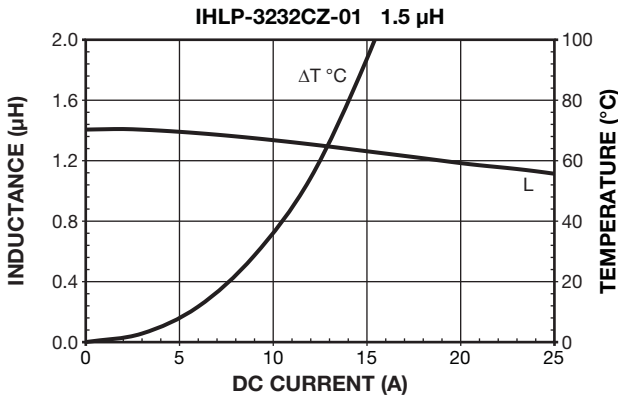
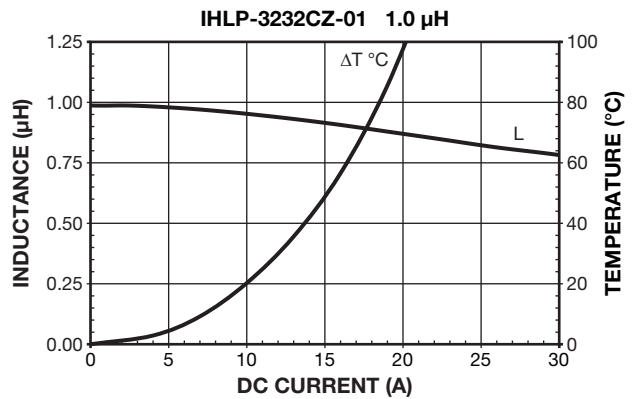
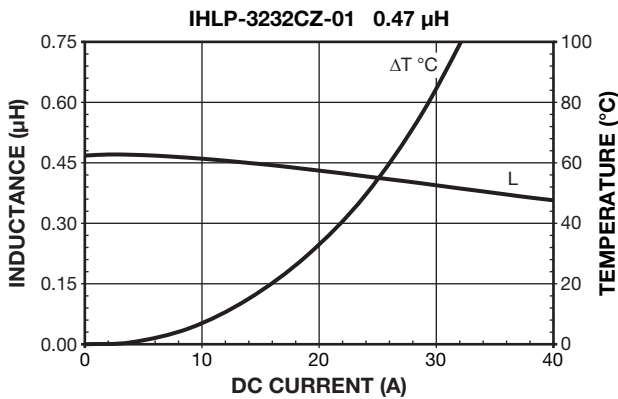
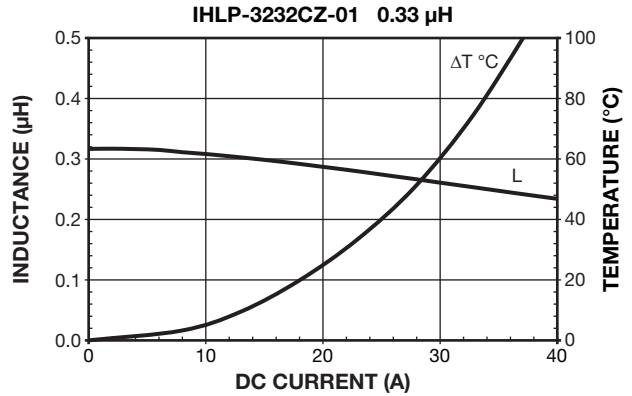
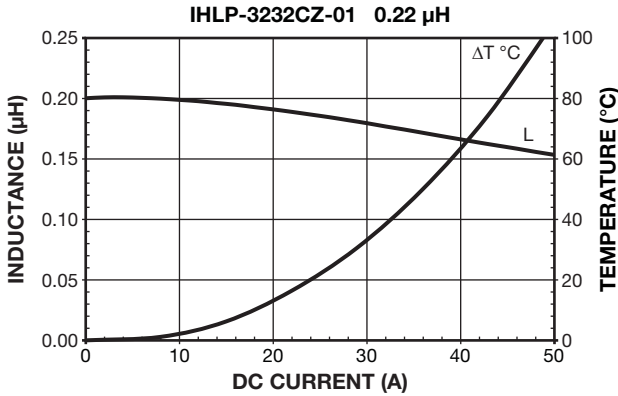
IHLP-3232CZ-01	4.7 μH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

**GLOBAL PART NUMBER**

I	H	L	P	3	2	3	2	C	Z	E	R	4	R	7	M	0	1
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE		TOL.	SERIES				

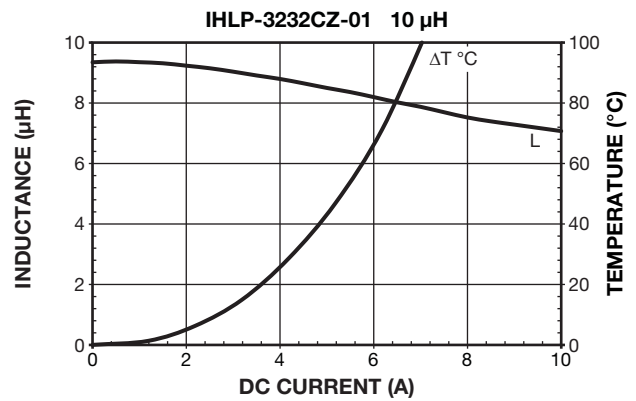
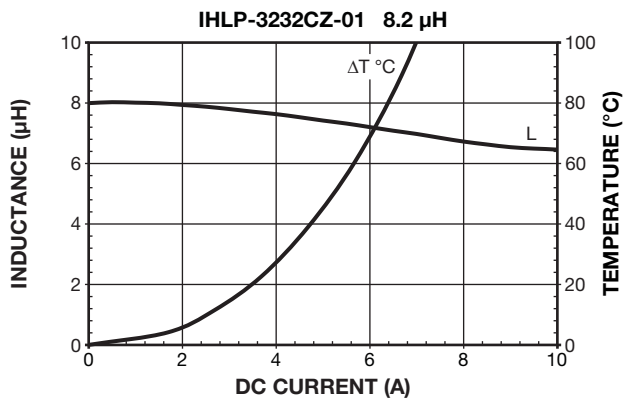
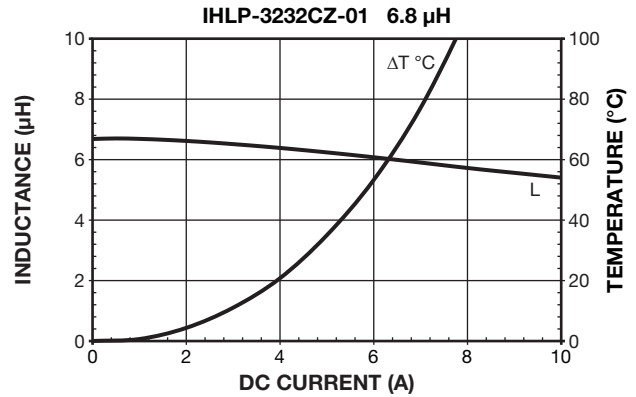
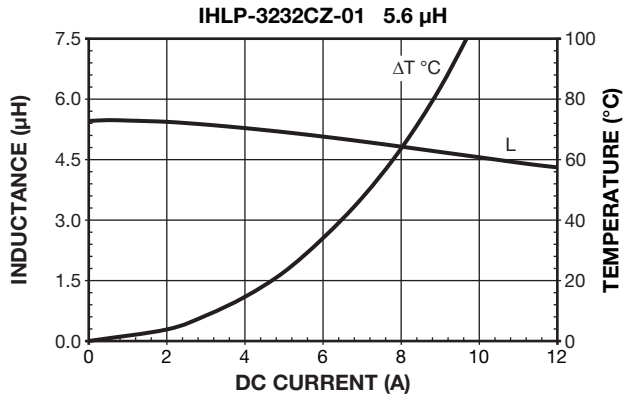


PERFORMANCE GRAPHS



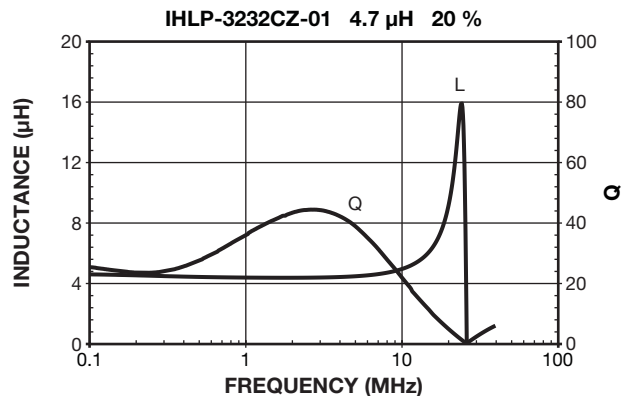
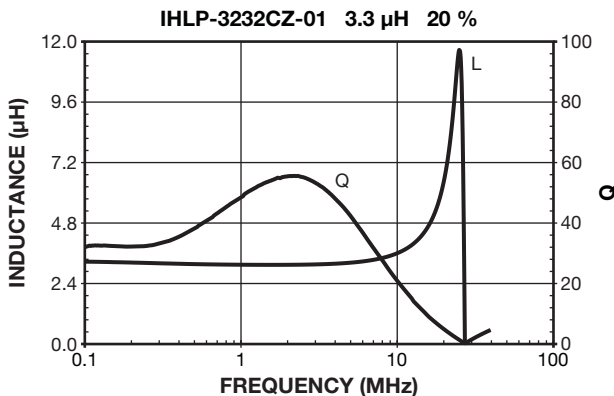
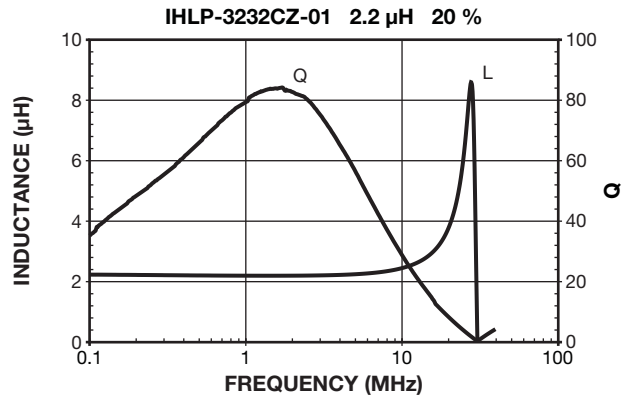
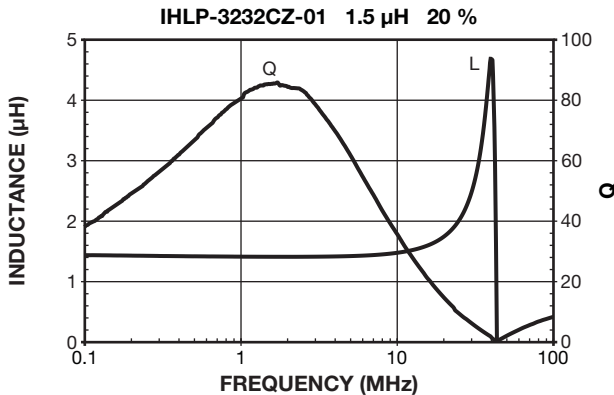
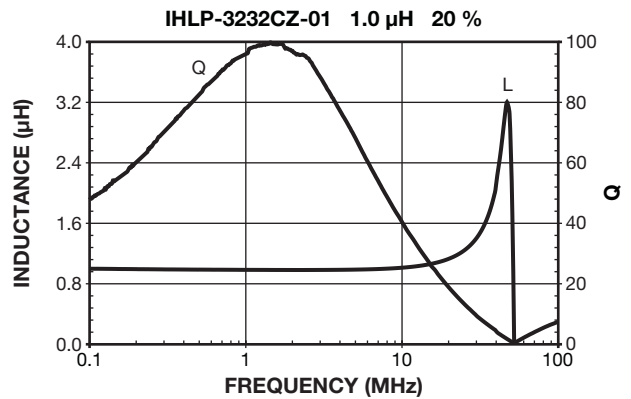
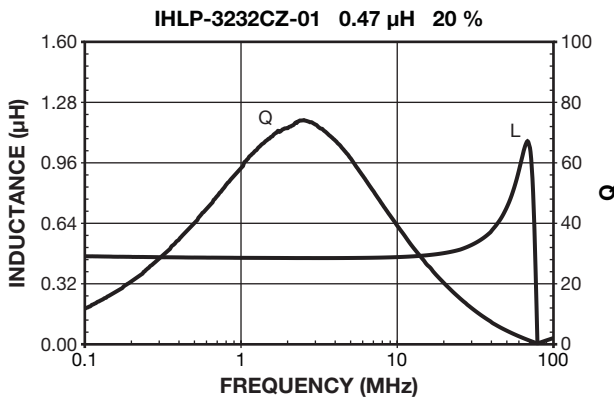
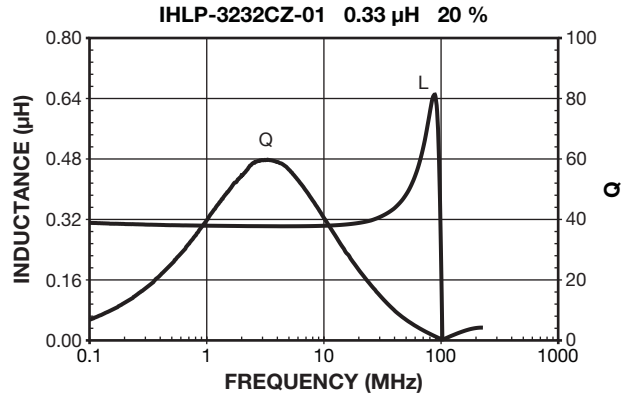
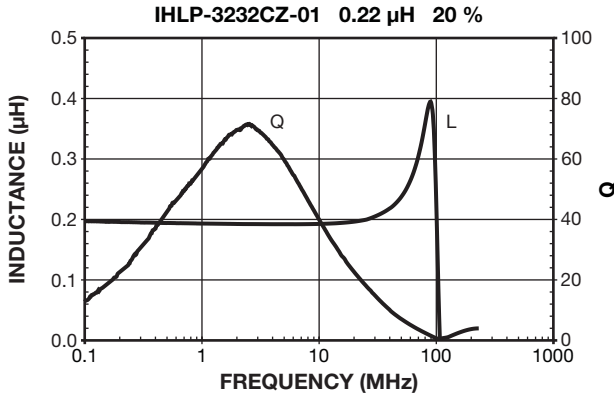


PERFORMANCE GRAPHS



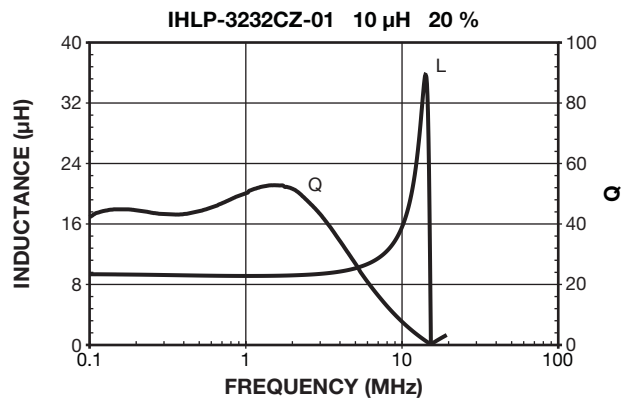
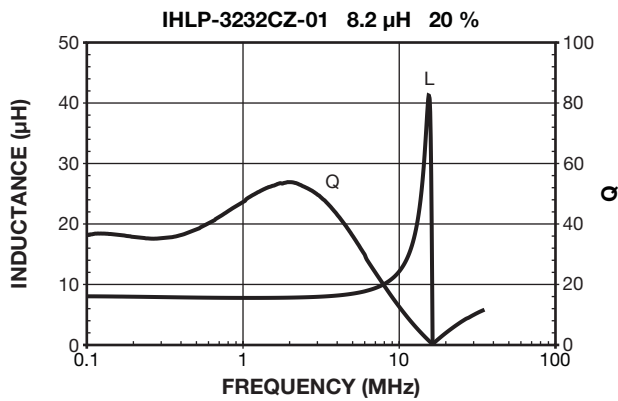
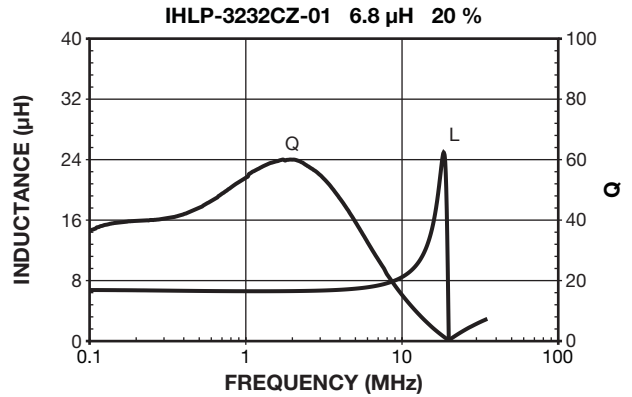
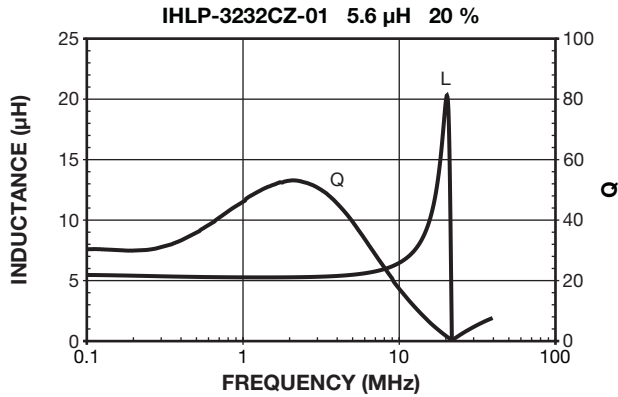


PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





**PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY**





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