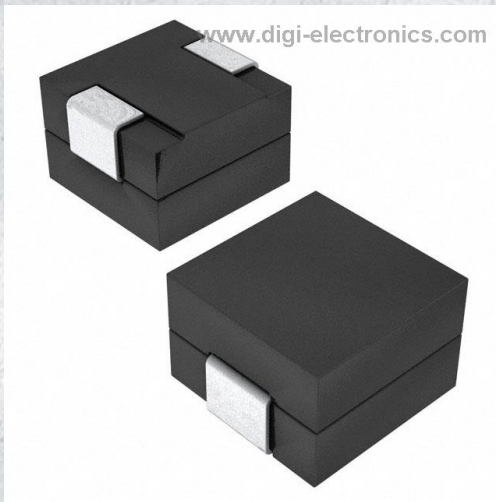


# IFLR2727EZERR15M01 Datasheet



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	IFLR2727EZERR15M01-DG
Manufacturer	<a href="#">Vishay Dale</a>
Manufacturer Product Number	IFLR2727EZERR15M01
Description	FIXED IND 150NH 45A 0.35MOHM SMD
Detailed Description	150 nH Shielded Inductor 45 A 0.35mOhm Max 2-SMD, J-Lead



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

IFLR2727EZERR15M01

Series:

IFLR-2727EZ-01

Part Status:

Active

Material - Core:

-

Tolerance:

±20%

Current - Saturation (Isat):

30A

DC Resistance (DCR):

0.35mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Mounting Type:

Surface Mount

Size / Dimension:

0.276" L x 0.276" W (7.00mm x 7.00mm)

Manufacturer:

Vishay Dale

Packaging:

Tape & Reel (TR)

Type:

-

Inductance:

150 nH

Current Rating (Amps):

45 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Package / Case:

2-SMD, J-Lead

Height - Seated (Max):

0.197" (5.00mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Affected

HTSUS:

8504.50.4000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

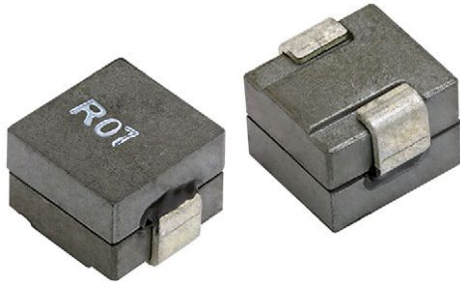



[www.vishay.com](http://www.vishay.com)

IFLR-2727EZ-01

Vishay Dale

## Low Profile, High Current Inductors



### FEATURES

- Shielded construction
- Frequency range up to 2 MHz
- Material categorization:  
for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

### APPLICATIONS

- Notebook / desktop / server applications
- High current POL converters
- Low profile, high current power supplies
- DC/DC converters in distributed power systems

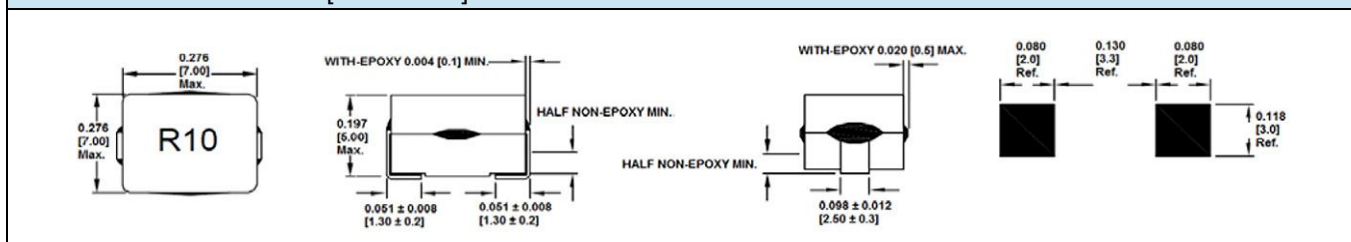
### STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	$L_0$ INDUCTANCE $\pm 20\%$ AT 100 kHz, 1 V, 0 A ( $\mu\text{H}$ )	DCR TYP. 25 °C (m $\Omega$ )	DCR MAX. 25 °C (m $\Omega$ )	HEAT RATING CURRENT DC TYP. (A) <sup>(3)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(4)</sup>
IFLR2727EZERR72NM01	0.072	0.32	0.35	45	58
IFLR2727EZERR10M01	0.105	0.32	0.35	45	46
IFLR2727EZERR15M01	0.150	0.32	0.35	45	30

### Notes

- (1) All test data is referenced to 25 °C ambient.
- (2) Operating and Storage temperature range -40 °C to +125 °C.
- (3) DC current (A) that will cause an approximate  $\Delta T$  of 40 °C.
- (4) DC current (A) that will cause  $L_0$  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.

### DIMENSIONS in inches [millimeters]



### DESCRIPTION

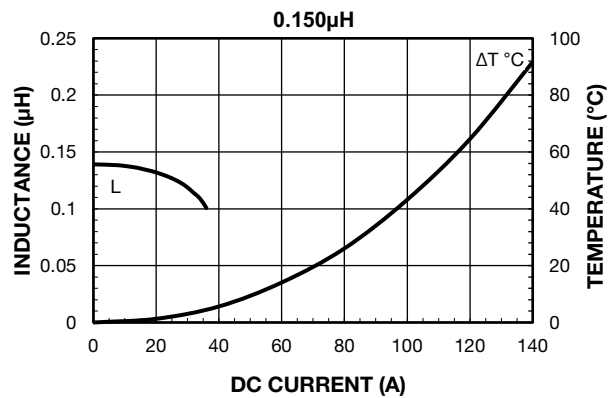
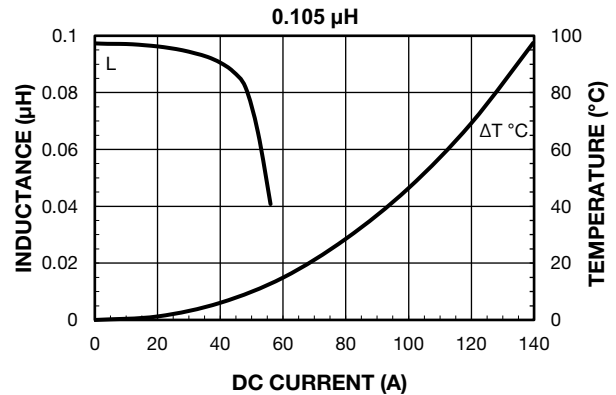
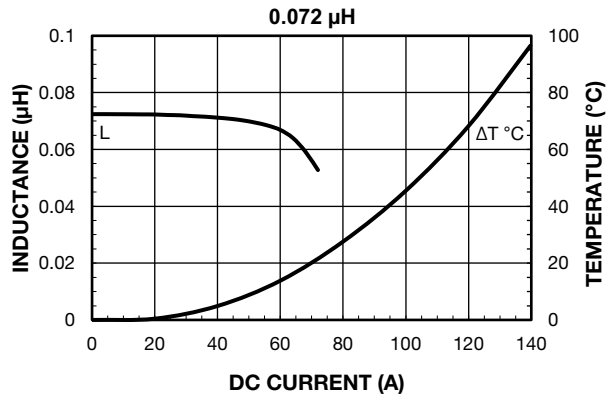
IFLR-2727EZ-01	0.15 $\mu\text{H}$	$\pm 20\%$	TAPE AND REEL	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

### GLOBAL PART NUMBER

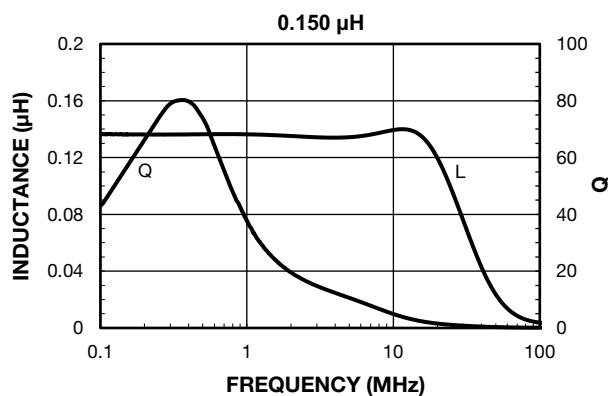
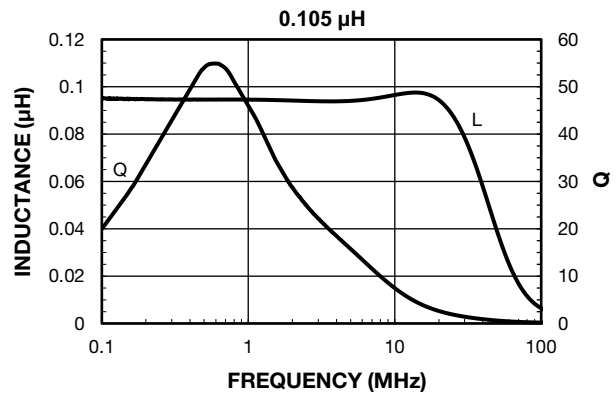
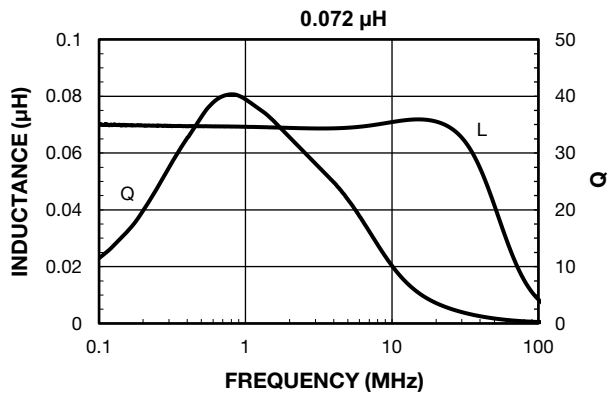
I	F	L	R	2	7	2	7	E	Z	E	R	R	1	5	M	0	1
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE		TOL.	SERIES				



## PERFORMANCE GRAPHS



## PERFORMANCE GRAPHS: INDUCTANCE AND Q VS. FREQUENCY





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