

# MOX-UPI-1306 SERIES

**MoxiE**<sup>®</sup>  
INDUCTOR CORPORATION



MoxiE's UPI-1306 surface mount power inductors are engineered for the stringent high current requirements of step up and step down transformers, notebook computers and various other handheld devices. MoxiE offers a unique industrial design to meet the most robust applications. The MOX-UPI-1306 is available in a wide range of inductance values to meet your design requirements.

## Features

- RoHS compliant.
- High current ratings.
- Low cost.
- Custom designs available.
- Excellent solderability and resistance to heat.



## NOTES

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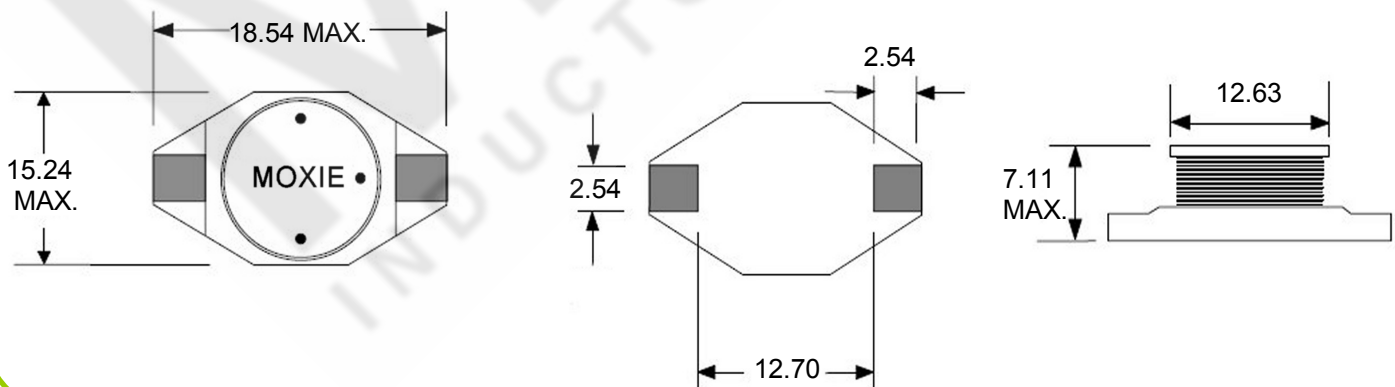
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## MECHANICAL DIMENSIONS





## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Available Tolerances	Inductance (uH)	Test Freq. (kHz)	SRF (MHz)	DC Resistance $\pm 15\%$ ( $\Omega$ )	Isat <sup>1</sup> (A)	Irms <sup>2</sup> (A)
MOX-UPI-1306-1R0M	20(M)	1.0	100 KHz,0.1 V	80	0.011	20	8.6
MOX-UPI-1306-2R2M	20(M)	2.2	100 KHz,0.1 V	80	0.014	16	7.1
MOX-UPI-1306-3R3M	20(M)	3.3	100 KHz,0.1 V	60	0.016	14	6.2
MOX-UPI-1306-5R6M	20(M)	5.6	100 KHz,0.1 V	40	0.022	12	5.3
MOX-UPI-1306-100M	20(M)	10.0	100 KHz,0.1 V	30	0.032	10	4.3
MOX-UPI-1306-150M	20(M)	15.0	100 KHz,0.1 V	22	0.036	8.0	4.0
MOX-UPI-1306-220M	20(M)	22.0	100 KHz,0.1 V	20	0.047	7.0	3.5
MOX-UPI-1306-330M	20(M)	33.0	100 KHz,0.1 V	15	0.066	5.5	3.0
MOX-UPI-1306-470M	20(M)	47.0	100 KHz,0.1 V	9	0.087	4.5	2.6
MOX-UPI-1306-680M	20(M)	68.0	100 KHz,0.1 V	8	0.13	3.5	2.3
MOX-UPI-1306-101M	20(M)	100.0	100 KHz,0.1 V	7	0.19	3.0	1.8
MOX-UPI-1306-151M	20(M)	150.0	100 KHz,0.1 V	6	0.25	2.6	1.5
MOX-UPI-1306-221M	20(M)	220.0	100 KHz,0.1 V	5	0.38	2.4	1.2
MOX-UPI-1306-331M	20(M)	330.0	100 KHz,0.1 V	4	0.56	1.9	1.0
MOX-UPI-1306-471M	20(M)	470.0	100 KHz,0.1 V	3	0.85	1.4	0.82
MOX-UPI-1306-681M	20(M)	680.0	100 KHz,0.1 V	2.5	1.2	1.2	0.72
MOX-UPI-1306-102M	20(M)	1000.0	100 KHz,0.1 V	2	1.8	1.0	0.56



## ENGINEERING DATA

- (1) DC current at which the inductance drops 10% (typ) from its value without current.
- (2) Current that causes a 40°C temperature rise from 25°C ambient.
- Operating temperature range -40°C to +85°C.
- All electrical specifications are at 25°C.
- Inductance measured with zero DC current.
- Packaging: Tape & reel.
- Weight: Approx. 600mg.
- Core material: Ferrite.
- Terminations: RoHS gold over nickel over phos bronze. MoxiE custom terminations available at extra cost.
- RoHS Compliant.
- MoxiE Inductor Corporation custom specifications are subject to United States patent and or copyright protection(s).
- MoxiE Inductor Corporation specifications are subject to change without notice.