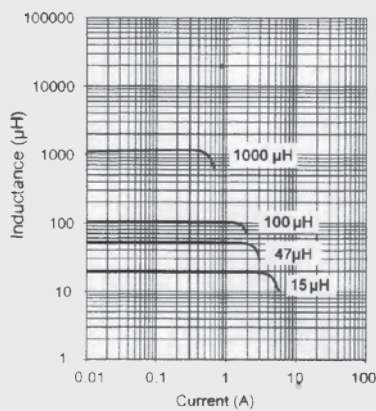
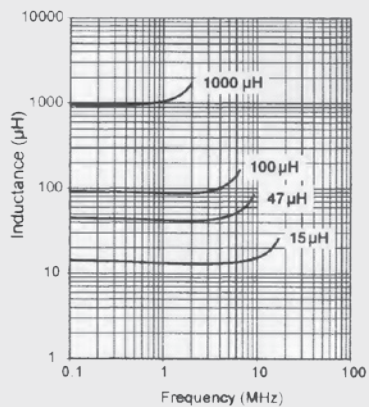


PIHV4119 – A NEW NON-SHIELDED HIGH VOLTAGE POWER INDUCTOR



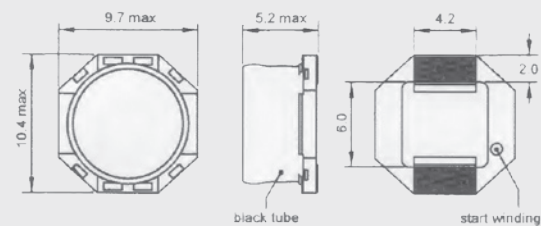
INDUCTANCE VS. FREQUENCY/CURRENT



FASTRON introduces the PIHV4119, a new high voltage SMD power inductor. Based on the successful PIS4119, FASTRON developed a compact 10 mm × 10 mm unshielded inductor for applications up to 400VDC. As well as its sister model the PIHV4119 provides a robust plastic moulded baseplate with integrated solder terminals. Lead free tinned terminals enable best reflow soldering results. Non-conducting ferrite cores as well as especially enameled copper wired coils provide the 400VDC capability and enable the part to withstand much higher voltage peaks. For improved protection towards other parts nearby, an isolation tube is pulled over the drum core. Due to the low profile height of 5.2mm the inductor is suitable for many power management applications, either as a filter and suppression-choke or as energy store in a power management circuit. Due to its universal field of applications the part will fit into several markets, e.g. lighting, automotive, computer, medical, industrial, consumer, communication and surveillance.

The PIHV4119 is offered in 12 different inductance values from 15 µH to 1000 µH with IR max. up to 3A and DCR down to 0.085 Ω. The operating temperature range is from -40°C up to +125°C. The components are suitable for lead-free soldering and are RoHS conform.

DIMENSIONS [mm]



TECHNICAL DATA

PART NUMBER	INDUCTANCE L [µH]	f_L [kHz]	TOL ±[%]	SFR _{TYP} [MHz]	DCR _{MAX} [Ω]	I_{SAT} TYP [A]	I_R MAX [A]
PIHV4119-150M-04	15	100/0.1V	20	17.3	0.085	3.10	3.00
PIHV4119-220M-04	22	100/0.1V	20	13.7	0.120	2.60	2.60
PIHV4119-330M-04	33	100/0.1V	20	11.7	0.180	2.10	2.20
PIHV4119-470M-04	47	100/0.1V	20	10.0	0.240	1.85	1.90
PIHV4119-680M-04	68	100/0.1V	20	8.7	0.330	1.50	1.55
PIHV4119-101M-04	100	100/0.1V	20	7.1	0.450	1.30	1.45
PIHV4119-151M-04	150	100/0.1V	20	5.4	0.650	1.05	0.90
PIHV4119-221M-04	220	100/0.1V	20	4.5	1.000	0.85	0.71
PIHV4119-331M-04	330	100/0.1V	20	3.8	1.500	0.70	0.61
PIHV4119-471M-04	470	100/0.1V	20	3.1	2.000	0.60	0.50
PIHV4119-681M-04	680	100/0.1V	20	2.6	3.000	0.50	0.45
PIHV4119-102M-04	1000	100/0.1V	20	2.2	4.450	0.40	0.34

new