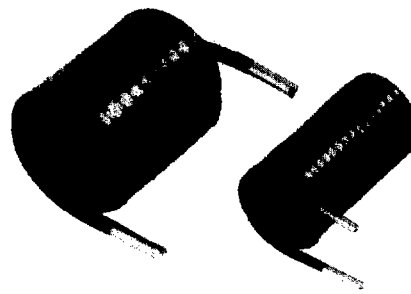




# HIGH CURRENT FILTER INDUCTORS

## MODEL IHV



### FEATURES

- Printed circuit mounting
- Low cost construction
- Designed for use with switching power supplies
- Pre-tinned leads
- Epoxy coated for durability and reliability

### SPECIFICATIONS

#### ELECTRICAL

**Inductance:** Measured at 1 KHz with no D.C. current

**Dielectric:** 2500 Volts RMS between winding and outer circumference to within 0.25 inches of the insulation sleeve edge.

**Temperature:** Operating:  $-55^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$   
Storage:  $-55^{\circ}\text{C}$  to  $+130^{\circ}\text{C}$

**Current Rating:** Based on continuous operation at room temperature ambient. Derating is required at elevated ambient temperatures in accordance with the derating curve.

#### MECHANICAL

**Terminals:** Extensions of winding wire, solder coated

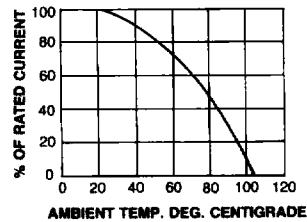
**Coating:** Epoxy conformal coated

### ELECTRICAL SPECIFICATIONS

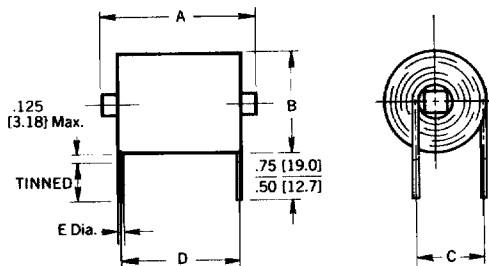
MODEL	INDUCTANCE* $\pm 10\%$	CURRENT (Max.)	DC RESISTANCE (Max.)	SELF-RESONANT FREQUENCY (Min.)
IHV-15-500	500 $\mu\text{h}$	15 amps	.050 $\Omega$	0.8 MHz
IHV-20-200	200 $\mu\text{h}$	20 amps	.021 $\Omega$	1.2 MHz
IHV-28-60	60 $\mu\text{h}$	28 amps	.0085 $\Omega$	1.9 MHz
IHV-30-150	150 $\mu\text{h}$	30 amps	.013 $\Omega$	2.1 MHz
IHV-40-39	39 $\mu\text{h}$	40 amps	.0048 $\Omega$	2.5 MHz
IHV-45-92	92 $\mu\text{h}$	45 amps	.0075 $\Omega$	2.9 MHz
IHV-50-50	50 $\mu\text{h}$	50 amps	.0045 $\Omega$	3.1 MHz
IHV-60-24	24 $\mu\text{h}$	60 amps	.0025 $\Omega$	5.7 MHz

\*Will not decrease more than 10% at rated current.

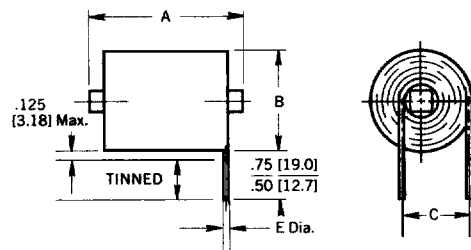
### DERATING CHART



STYLE 1



STYLE 2



### MECHANICAL SPECIFICATIONS

MODEL	STYLE	A (Max.)	B $\pm .050$ [1.27]	C $\pm .062$ [1.57]	D $\pm .062$ [1.57]	E (Dia.)	TYPICAL WEIGHT (Grams)
IHV-15-500	1	2.45 [62.2]	1.45 [36.8]	.98 [24.9]	1.95 [49.6]	.082 [2.08]	305
IHV-20-200	2	2.45 [62.2]	1.45 [36.8]	.98 [24.9]	—	.102 [2.59]	310
IHV-28-60	2	2.45 [62.2]	1.02 [25.9]	.77 [19.6]	—	.102 [2.59]	160
IHV-30-150	2	2.45 [62.2]	1.65 [41.9]	1.08 [27.4]	—	.129 [3.28]	470
IHV-40-39	2	2.45 [62.2]	1.15 [29.2]	.82 [20.8]	—	.129 [3.28]	210
IHV-45-92	2	2.55 [64.8]	1.92 [48.8]	1.21 [30.7]	—	.162 [4.11]	650
IHV-50-50	1	2.55 [64.8]	1.57 [39.9]	1.05 [26.7]	2.10 [53.3]	.162 [4.11]	420
IHV-60-24	2	2.45 [62.2]	1.27 [32.3]	.89 [22.6]	—	.162 [4.11]	270

### ORDERING INFORMATION

IHV -15 500  $\pm 10\%$   
1. 2. 3.

1. Basic model high current choke
2. Current rating maximum (amperes)
3. Inductance ( $\mu\text{h}$ )

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