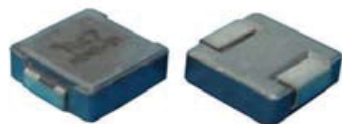




## OWIHP0724 TYPE

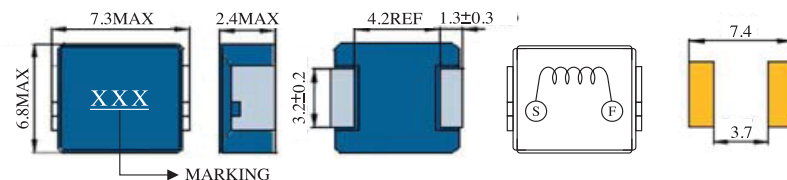


### FEATURES

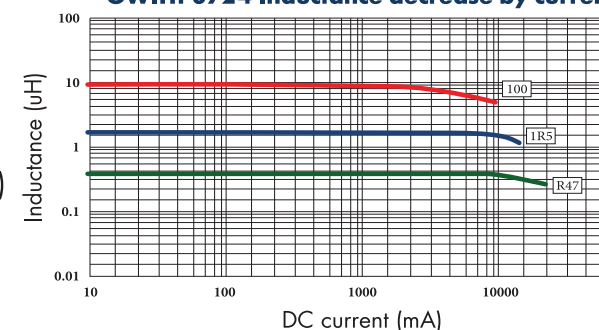
1. 100% lead (Pb)-free.
2. lowest DCR/ $\mu\text{H}$ , in this package size.
3. Frequency range up to 5.0MHZ.
4. Handles high transient current spikes without saturation.
5. Ultra low buzz noise, due to composite construction.

### APPLICATIONS

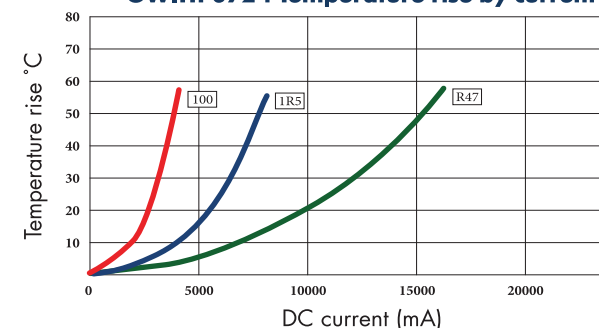
1. Notebook/Desktop/Server applications.
2. Low profile, high current power supplies.
3. Battery powered devices.
4. DC/DC converter for Field Programmable Gate Array (FPGA)



### OWIHP0724 Inductance decrease by current



### OWIHP0724 Temperature rise by current



## ELECTRICAL CHARACTERISTICS FOR OWIHP0724 SERIES

| Part Number    | Lo Inductance $\mu\text{H} \pm 20\%$<br>@200KHZ, 0.25V, 0A | DCR m $\Omega$<br>MAX 25 $^{\circ}\text{C}$ | Heat Rating Current<br>DCAMPS <sup>3</sup> Typical | Saturation Current<br>DCAMPS <sup>4</sup> Typical |
|----------------|--|---|--|---|
| OWIHP0724-R47M | 0.47   | 6.50  | 13.5   | 21  |
| OWIHP0724-R56M | 0.56   | 7.50  | 12.0   | 19  |
| OWIHP0724-R68M | 0.68   | 9.40  | 11.0   | 18  |
| OWIHP0724-R82M | 0.82   | 11.8  | 10.0   | 17  |
| OWIHP0724-1R0M | 1.00   | 14.2  | 9.0  | 16  |
| OWIHP0724-1R5M | 1.50   | 21.2  | 7.5  | 13  |
| OWIHP0724-2R2M | 2.20   | 34.0  | 6.5  | 11  |
| OWIHP0724-3R3M | 3.30   | 51.6  | 5.0  | 9   |
| OWIHP0724-4R7M | 4.70   | 63.0  | 4.5  | 7   |
| OWIHP0724-6R8M | 6.80   | 95.0  | 3.5  | 6   |
| OWIHP0724-100M | 10.0   | 129   | 2.5  | 5   |
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1. All test data is referenced to 25 $^{\circ}\text{C}$  ambient.
2. Operating Temperature Range -55 $^{\circ}\text{C}$  to +125 $^{\circ}\text{C}$ .
3. DC current(A) that will cause an approximate  $\Delta\text{T}$  of 40 $^{\circ}\text{C}$ .
4. DC current(A) that will cause Lo to drop approximately 20%
5. The part temperature(ambient + temp rise) should not exceed 125 $^{\circ}\text{C}$  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.