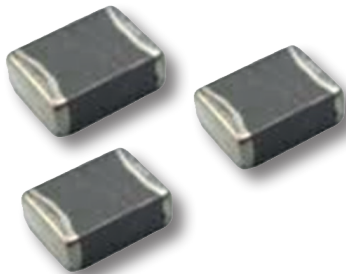
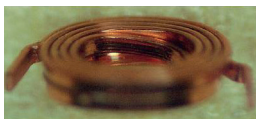


# HIGHLY COMPACT CHIP INDUCTORS – DP SERIES



**ABC's DP Series are inductors in chip size.** Externally they look like chip ferrite beads or multilayer chip inductors. The internal construction however, consists of an enamelled flat copper wire wound in  $\alpha$  style which helps to reduce the DC losses (DCR) to a minimum. The core material consists of a partly amorphous metal alloy powder which helps to reduce the AC losses (core loss) to a minimum.



Enamelled flat copper wire wound in  $\alpha$  style

## FEATURES

- Compact shape – optimal ratio of performance / space enables to reduce space for same performance requirement
- Low losses – low DCR by applying enamelled flat copper wire wound in  $\alpha$  style and low AC losses by applying amorphous metal alloy powder

## APPLICATIONS

- Portable devices such as:  
Data Logger, HMI, Operating Terminals, Laboratory Devices, Measurement, Headphones, Monitoring/ Surveillance, Scanner, Alcotester, Blood Analyse Devices ...
- General purpose of Industrial Electronics such as:  
Controls, Measures, Testers ...
- Toys such as Model Trains
- Multimedia applications such as:  
Tablet, Cell Phone, Computers, Navigation, Trackers, Cameras, Pet Trackers ...

DWG NO.	INDUCTANCE ( $\mu$ H)	RDC (m $\Omega$ ) MAX.	Isat (A)		I <sub>rms</sub> (A)	
			max.	typ.	max.	typ.
<b>DP2016R47MS B-DE2</b>	0.47 $\pm$ 20 %	40	4.00	4.50	3.10	3.60
<b>DP20161R0MS B-DE2</b>	1.00 $\pm$ 20 %	70	3.10	3.40	2.20	2.60
<b>DP20161R5MS B-DE2</b>	1.50 $\pm$ 20 %	110	2.50	2.80	1.80	2.10
<b>DP20162R2MS B-DE2</b>	2.20 $\pm$ 20 %	168	2.00	2.20	1.40	1.60

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