

## Molded Coils for Surface Mounting

RITOKO

## MC152

## Close Wound

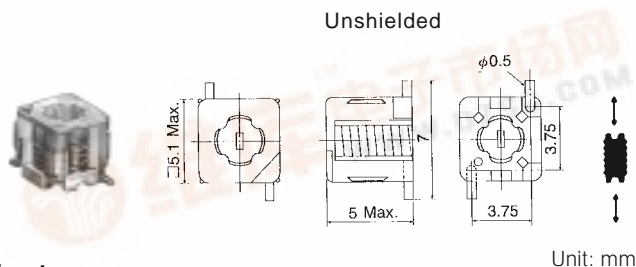
Frequency Range: 30-150MHz (with ferrite core)

Inductance Range: 29~142nH (without case)

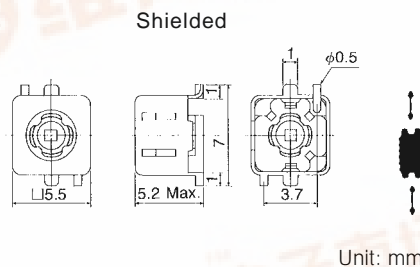
27~94nH (with case)

Temperature Coefficient: 150±100ppm/°C (without case)

100±100ppm/°C (with case)



Unit: mm



Unit: mm

## Features

- Low profile SMT molded coil.
- Ideal for use in RF circuit for communication and car radio applications.
- Shielded case also available.

## STANDARD COILS SELECTION GUIDE

(1) Alternate use of brass core will increase the usable frequency of any specific coil form, however inductance is reduced. These cores may also be substituted for ferrite as a means of lowering Q.

(2) Q measured by Q meter

(3) Inductance measured by HP-4191A at 100MHz for reference only.

## TYPE MC152

Without Case TOKO Part Number <sup>(1)</sup>	Number of Turns	C Range**	Q <sup>(2)</sup>	Color Code	Inductance <sup>(3)</sup>
Ferrite Core					
E558CN-100020	1½	80.4pF±2%	90±20% (at 100MHz)	WHITE	32nH
E558CN-100021	2½	53.8pF±3%	110±20% (at 100MHz)	VIOLET	47nH
E558CN-100022	3½	37.0pF±3%	110±20% (at 100MHz)	ORANGE	68nH
E558CN-100023	4½	28.0pF±3%	115±20% (at 100MHz)	YELLOW	90nH
*E558CN-100024	5½	22.7pF±3%	120±20% (at 100MHz)	WHITE	112nH
*E558CN-100025	6½	17.8pF±3%	120±20% (at 100MHz)	BLUE	142nH
Air Core					
E558HN-100096	1½	86.9pF±10%	85±20% (at 100MHz)	WHITE	29nH
E558HN-100097	2½	61.2pF±10%	100±20% (at 100MHz)	VIOLET	41nH
E558HN-100098	3½	44.9pF±10%	105±20% (at 100MHz)	ORANGE	56nH
E558HN-100099	4½	34.6pF±10%	105±20% (at 100MHz)	YELLOW	73nH
E558HN-100100	5½	27.9pF±10%	120±20% (at 100MHz)	WHITE	91nH
E558HN-100101	6½	22.9pF±10%	120±20% (at 100MHz)	BLUE	111nH
Brass Core					
E558AN-100040	1½	88.6pF± 1%	52±20% (at 100MHz)	WHITE	29nH
E558AN-100041	2½	66.5pF± 3%	63±20% (at 100MHz)	VIOLET	38nH
E558AN-100042	3½	52.4pF± 3%	56±20% (at 100MHz)	ORANGE	48nH
E558AN-100043	4½	44.1pF± 2%	50±20% (at 100MHz)	YELLOW	57nH
E558AN-100044	5½	35.3pF± 2%	50±20% (at 100MHz)	WHITE	72nH
E558AN-100045	6½	30.0pF± 2%	50±20% (at 100MHz)	BLUE	84nH

\* Minimum inductance values with core 2 turns above top of bobbin.

\*\* C Range shows tolerance.

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**STANDARD COILS SELECTION GUIDE**
***TYPE MC152 (cont'd)***

With Case TOKO Part Number <sup>(1)</sup>	Number of Turns	C Range**	Q <sup>(2)</sup>	Color Code	Inductance <sup>(3)</sup>
<b>Ferrite Core</b>					
E558CNA-100032	1 <sup>1</sup> / <sub>2</sub>	89.0pF±1.5%	63±20% (at 100MHz)	WHITE	28nH
E558CNA-100033	2 <sup>1</sup> / <sub>2</sub>	64.2pF±2.0%	77±20% (at 100MHz)	VIOLET	39nH
E558CNA-100034	3 <sup>1</sup> / <sub>2</sub>	48.2pF±2.0%	76±20% (at 100MHz)	ORANGE	53nH
E558CNA-100035	4 <sup>1</sup> / <sub>2</sub>	37.9pF±2.0%	81±20% (at 100MHz)	YELLOW	67nH
*E558CNA-100036	5 <sup>1</sup> / <sub>2</sub>	31.9pF±2.0%	86±20% (at 100MHz)	WHITE	79nH
*E558CNA-100037	6 <sup>1</sup> / <sub>2</sub>	27.0pF±2.0%	80±20% (at 100MHz)	BLUE	94nH
<b>Brass Core</b>					
E558ANA-100050	1 <sup>1</sup> / <sub>2</sub>	92.2pF±1.0%	58±20% (at 100MHz)	WHITE	27nH
E558ANA-100051	2 <sup>1</sup> / <sub>2</sub>	73.6pF±2.0%	55±20% (at 100MHz)	VIOLET	34nH
E558ANA-100052	3 <sup>1</sup> / <sub>2</sub>	59.1pF±2.0%	54±20% (at 100MHz)	ORANGE	43nH
E558ANA-100053	4 <sup>1</sup> / <sub>2</sub>	48.7pF±2.0%	52±20% (at 100MHz)	YELLOW	52nH
E558ANA-100054	5 <sup>1</sup> / <sub>2</sub>	41.6pF±2.0%	49±20% (at 100MHz)	WHITE	61nH
E558ANA-100055	6 <sup>1</sup> / <sub>2</sub>	37.1pF±2.0%	47±20% (at 100MHz)	BLUE	68nH
<b>Air Core</b>					
E558HNA-100090	1 <sup>1</sup> / <sub>2</sub>	90.7pF±10%	60±20% (at 100MHz)	WHITE	28nH
E558HNA-100091	2 <sup>1</sup> / <sub>2</sub>	68.2pF±10%	70±20% (at 100MHz)	VIOLET	37nH
E558HNA-100092	3 <sup>1</sup> / <sub>2</sub>	52.8pF±10%	80±20% (at 100MHz)	ORANGE	48nH
E558HNA-100093	4 <sup>1</sup> / <sub>2</sub>	42.7pF±10%	80±20% (at 100MHz)	YELLOW	59nH
E558HNA-100094	5 <sup>1</sup> / <sub>2</sub>	35.5pF±10%	86±20% (at 100MHz)	WHITE	71nH
E558HNA-100095	6 <sup>1</sup> / <sub>2</sub>	30.3pF±10%	83±20% (at 100MHz)	BLUE	84nH

\* Minimum inductance values with core 2 turns above top of bobbin.

\*\* C Range shows tolerance.