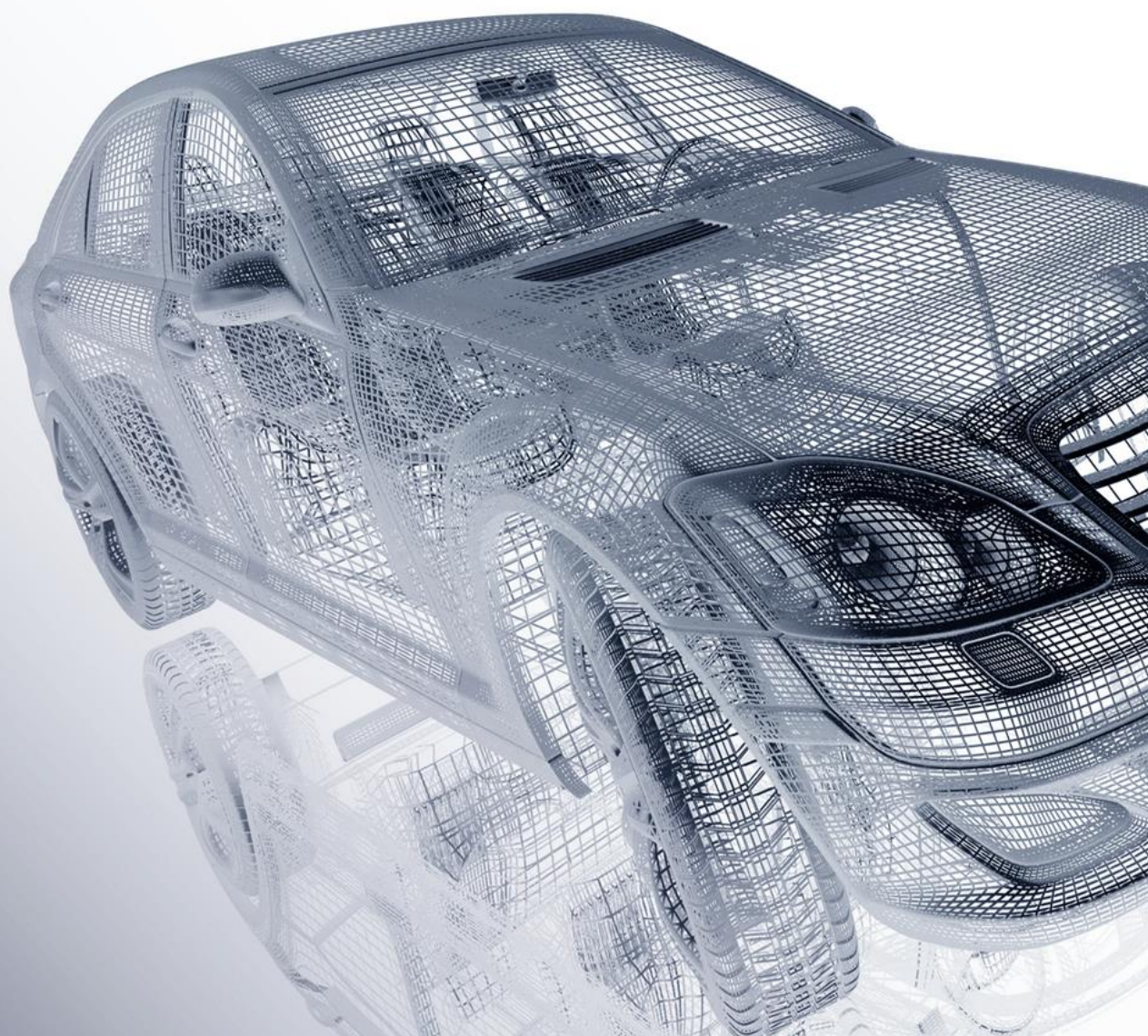




# AUTOMOTIVE POWER CHOKE

2023 PRODUCT CATALOGUE




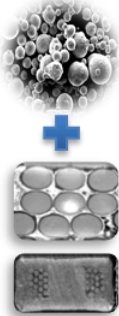
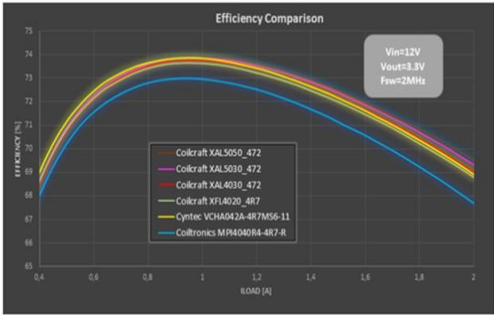
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
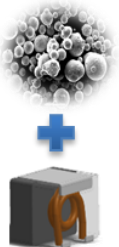


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## INTRODUCTION

Cyntec's proven design and process support high reliability, high thermal characteristics, and high efficiency power chokes for automotive application.

	<h3>DC/DC Choke Feature</h3>
<p>Operating Temp.</p>	<ul style="list-style-type: none"> <li>-55°C~155°C</li> </ul>
<p>Electric Properties</p>	<ul style="list-style-type: none"> <li>High performance (Isat)</li> <li>Low DCR</li> </ul>
<p>Reliability</p>	<ul style="list-style-type: none"> <li>Thermal Cycles : over 1000 Cycles</li> <li>Vibration : over 5G</li> <li>Body Strength : 20N</li> <li>Bending Strength : &lt;6~8mm</li> <li>Over 1m drop Test</li> </ul>
<p>Core competence</p>	<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">  <p><b>Material</b></p> <ul style="list-style-type: none"> <li>Tcurie: Alloy &gt; Ferrite → ΔIsat ↓ with Temp. Variation</li> <li>Insulated Metal Powder(~1KV)</li> </ul> <p><b>Coil &amp; Structure</b></p> <ul style="list-style-type: none"> <li>Automation Winding</li> <li>No Air Gap</li> </ul> </div> <div>  <p><b>Efficiency Comparison</b></p> <p>Win=12V Vout=3.3V Fsw=2MHz</p> <p>Legend:</p> <ul style="list-style-type: none"> <li>Colcraft XAL5050_472</li> <li>Colcraft XAL5030_472</li> <li>Colcraft XAL4030_472</li> <li>Colcraft XFL4020_4R7</li> <li>Cyntec VCHA042A-4R7M56-11</li> <li>Coltronic MP4040R4-4R7-R</li> </ul> </div> </div>

	<h3>Audio Choke Feature</h3>
<p>Operating Temp.</p>	<ul style="list-style-type: none"> <li>55°C~125°C</li> </ul>
<p>Electric Properties</p>	<ul style="list-style-type: none"> <li>High performance (Isat)</li> <li>Low loss realized with low DCR</li> </ul>
<p>Reliability</p>	<ul style="list-style-type: none"> <li>Vibration : over 5G</li> <li>Body Strength : 20N</li> </ul>
<p>Core competence</p>	<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">  <p><b>Material</b></p> <ul style="list-style-type: none"> <li>Tcurie: Alloy &gt; Ferrite → ΔIsat ↓ with Temp. Variation</li> </ul> <p><b>Coil &amp; Structure</b></p> <ul style="list-style-type: none"> <li>Automation Winding</li> <li>No Air Gap</li> </ul> </div> <div> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;"> <p><b>Original (Ferrite)</b></p> <p>Class-D Amp.</p>  <p>12.8x10.5 mm</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p><b>Cyntec (Alloy)</b></p> <p>Class-D Amp.</p>  <p>10.2 x 9.2 mm</p> </div> </div> <p style="text-align: center; color: blue; font-weight: bold;">Over 30% Space-saving</p> </div> </div>

## PART NUMBERING

①	②	③	-	④	⑤	⑥
VCTA	2016	1B	-	R47	M	S

① Series No

② SIZE (L\*W) : 2016=2.0mm\*1.6mm

CODE	2016	2520	3225	04	05
Dimension	2.0*1.6	2.5*2.0	3.2*2.5	4.2*4.0	5.45*5.25
CODE	06	07	08	10	13
Dimension	6.0*7.3	7.7*7.2	8.7*8.2	11.2*10.3	13.8*12.8

③ SIZE (T) : 1T=1.0mm ; 2B=2.2mm

CODE	T	B	D	E	H
Dimension	0.0	0.2	0.4	0.5	0.8

④ Inductance value:


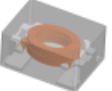
3 Types:

TYPE	1	2	3	4	5				
CODE	R47	R50	1R0	2R2	100	220	101	201	102
Inductance value	0.47	0.50	1.0	2.2	10.0	22.0	100.0	200.0	1000.0

⑤ Tolerance: M=± 20%

⑥ Materials Type

## SPECIFICATION NOTE

TYPE	SPECIFICATION NOTE
	<p><b><u>Molded Power Choke</u></b></p> <p>* : If you require another part number please contact with us.            ** : Inductance Tolerance <math>\pm 20\%</math></p> <p>Note 1. : All test data is referenced to 25°C ambient.            Note 2. : Test Condition:100KHz, 1.0Vrms            Note 3. : Idc : DC current (A) that will cause an approximate <math>\Delta T</math> of 40°C            Note 4. : Isat : DC current (A) that will cause L0 to drop approximately 20%            Note 5. : Operating Temperature Range -55°C to + 155°C            Note 6. : The part temperature (ambient + temp rise) should not exceed 155°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.            Note 7. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.            Note 8. : Cleaning Process Note            (a) If this power choke is dipped in the cleaning agent, such as toluene, xylene, ketone, and ether system, there is a possibility that the performance decreases greatly            (b) The high power ultrasonic washing may damage the choke body.            (c) Please contact us if you need the cleaning via the above agents or ultrasonic washing.</p>
	<p><b><u>High Performance Power Choke</u></b></p> <p>* : If you require another part number please contact with us.            ** : Inductance Tolerance <math>\pm 20\%</math></p> <p>Note 1. : All test data is referenced to 25°C ambient.            Note 2. : Test Condition:100KHz, 1.0Vrms            Note 3. : Idc : DC current (A) that will cause an approximate <math>\Delta T</math> of 40°C            Note 4. : Isat : DC current (A) that will cause L0 to drop approximately 30%            Note 5. : Operating Temperature Range -55°C to + 165°C            Note 6. : The part temperature (ambient + temp rise) should not exceed 165°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.            Note 7. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.            Note 8. : Cleaning Process Note            (a) If this power choke is dipped in the cleaning agent, such as toluene, xylene, ketone, and ether system, there is a possibility that the performance decreases greatly            (b) The high power ultrasonic washing may damage the choke body.            (c) Please contact us if you need the cleaning via the above agents or ultrasonic washing.</p>



### Hot Pressed T-core Power Choke

\* : If you require another part number please contact with us.

\*\* : Inductance Tolerance  $\pm 20\%$

Note 1. : All test data is referenced to 25°C ambient.

Note 2. : Test Condition:1MHz, 1.0Vrms

Note 3. : Idc : DC current (A) that will cause an approximate  $\Delta T$  of 40°C

Note 4. : Isat : DC current (A) that will cause L0 to drop approximately 30%

Note 5. : Operating Temperature Range -55°C to + 165°C

Note 6. : The part temperature (ambient + temp rise) should not exceed 165°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

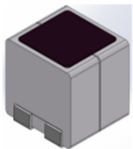
Note 7. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Note 8. : Cleaning Process Note

(a) If this power choke is dipped in the cleaning agent, such as toluene, xylene, ketone, and ether system, there is a possibility that the performance decreases greatly

(b) The high power ultrasonic washing may damage the choke body.

(c) Please contact us if you need the cleaning via the above agents or ultrasonic washing.



### Dual Core Audio Power Choke

\* : If you require another part number please contact with us.

\*\* : Inductance Tolerance  $\pm 20\%$

Note 1. : All test data is referenced to 25°C ambient.

Note 2. : MS Level: Level 1.

Note 3. : Test Condition:100KHz, 1.0Vrms

Note 4. : Idc : DC current (A) that will cause an approximate  $\Delta T$  of 40°C

Note 5. : Isat : DC current (A) that will cause L0 to drop approximately 25%

Note 6. : Operating Temperature Range -55°C to + 125°C

Note 7. : The part temperature (ambient + temp rise) should not exceed 125°C under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

Note 8. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Note 9. : Cleaning Process Note

(a) If this power choke is dipped in the cleaning agent, such as toluene, xylene, ketone, and ether system, there is a possibility that the performance decreases greatly


(b) The high power ultrasonic washing may damage the choke body.

(c) Please contact us if you need the cleaning via the above agents or ultrasonic washing.

## DC-DC Power Choke


### 1608 SERIES

#### VCTB16081T (1.6\*0.8\*1.0 mm)


 Part Number	LO Inductance (uH)		DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
			Typical	Max	Typical	Max	Typical	Max
VCTB16081T-R47MS6	0.47		56.0	68.0	3.3	3.0	3.3	3.0

### 2016 SERIES

#### VCTA20161B (2.0\*1.6\*1.2 mm)


 Part Number	LO Inductance (uH)		DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
			Typical	Max	Typical	Max	Typical	Max
VCTA20161B-R10MS6	0.10		5.0	9.0	9.0	6.5	10.0	9.0
VCTA20161B-R15MS6	0.15		11.0	14.0	7.9	7.1	11.7	10.0
VCTA20161B-R22MS6	0.22		15.0	18.0	5.8	5.2	7.7	6.6
VCTA20161B-R24MS6	0.24		14.0	17.0	5.5	5.0	6.6	6.0
VCTA20161B-R33MS6	0.33		19.0	23.0	4.7	4.2	5.9	5.1
VCTA20161B-R47MS6	0.47		21.0	25.0	4.5	4.0	5.4	4.8
VCTA20161B-R50MS6	0.50		25.0	30.0	4.2	3.8	4.7	4.0
VCTA20161B-R56MS6	0.56		29.0	35.0	4.0	3.6	4.4	3.8
VCTA20161B-R68MS6	0.68		31.0	40.0	3.9	3.4	4.1	3.6
VCTA20161B-1R0MS6	1.0		41.0	48.0	3.1	2.7	3.8	3.3
VCTA20161B-1R5MS6	1.5		67.0	80.0	2.5	2.3	3.2	2.8
VCTA20161B-2R2MS6	2.2		105.0	120.0	2.0	1.7	2.8	2.5
VCTA20161B-3R3MS6	3.3		210.0	250.0	1.3	1.2	1.8	1.5
VCTA20161B-4R7MS6	4.7		315.0	378.0	1.2	1.0	1.4	1.2
VCTA20161B-6R8MS6	6.8		560.0	670.0	0.8	0.7	1.1	1.0
VCTA20161B-100MS6	10.0		710.0	850.0	0.6	0.5	0.9	0.8

#### VCTD20161B (2.0\*1.6\*1.2 mm)

 Part Number	LO Inductance (uH)		DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
			Typical	Max	Typical	Max	Typical	Max
VCTD20161B-R47MS6	0.47		18.3	22.0	5.7	5.1	6.0	5.4




**VCUW20161B (2.0\*1.6\*1.2 mm)**


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCUW20161B-R24MS5	0.24	27.0	33.0	3.8	3.4	6.5	5.6
VCUW20161B-R47MS5	0.47	32.0	39.0	3.6	3.2	5.0	4.5
VCUW20161B-1R0MS5	1.0	78.0	94.0	2.2	2.0	3.5	3.2
VCUW20161B-1R5MS5	1.5	100.0	120.0	2.0	1.8	2.8	2.5
VCUW20161B-2R2MS5	2.2	140.0	168.0	1.8	1.6	2.4	2.1

## 2520 SERIES

### VCTA25201B (2.5\*2.0\*1.2 mm)


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCTA25201B-R10MS6	0.10	9.0	11.0	7.7	7.0	12.8	11.0
VCTA25201B-R15MS6	0.15	10.6	12.8	6.5	5.8	10.2	8.7
VCTA25201B-R22MS6	0.22	11.2	13.5	6.3	5.7	9.0	8.0
VCTA25201B-R33MS6	0.33	16.0	20.0	5.4	4.8	8.9	8.0
VCTA25201B-R47MS6	0.47	21.0	26.0	4.7	4.0	6.5	5.6
VCTA25201B-R68MS6	0.68	30.0	37.0	4.1	3.5	5.3	4.8
VCTA25201B-1R0MS6	1.0	35.0	42.0	3.8	3.4	4.8	4.2
VCTA25201B-1R5MS6	1.5	50.0	60.0	3.1	2.7	3.9	3.3
VCTA25201B-2R2MS6	2.2	70.0	84.0	2.6	2.2	3.5	3.0
VCTA25201B-3R3MS6	3.3	115.0	140.0	2.0	1.8	2.7	2.3
VCTA25201B-4R7MS6	4.7	165.0	200.0	1.7	1.4	2.2	2.0
VCTA25201B-6R8MS6	6.8	330.0	400.0	1.2	1.0	1.8	1.6
VCTA25201B-100MS6	10.0	440.0	530.0	1.0	0.8	1.5	1.3

### VCUW25201B (2.5\*2.0\*1.2 mm)


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCUW25201B-R47MS5	0.47	21.0	26.0	4.7	4.0	6.5	5.6
VCUW25201B-R68MS5	0.68	30.0	36.0	4.0	3.6	5.2	4.8
VCUW25201B-1R0MS5	1.0	33.0	40.0	3.8	3.4	4.1	3.5
VCUW25201B-1R5MS5	1.5	58.0	72.0	2.9	2.6	3.9	3.3
VCUW25201B-2R2MS5	2.2	70.0	84.0	2.9	2.6	3.4	2.9
VCUW25201B-3R3MS5	3.3	150.0	180.0	1.6	1.4	2.6	2.3
VCUW25201B-4R7MS5	4.7	175.0	210.0	1.5	1.3	2.2	2.0
VCUW25201B-6R8MS5	6.8	320.0	385.0	1.1	1.0	1.9	1.7
VCUW25201B-150MS5	15.0	800.0	1000.0	0.6	0.54	1.4	1.2

## 3225 SERIES


### VCTA32251B (3.2\*2.5\*1.2 mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCTA32251B-R15MS6	0.15	10.0	12.0	6.8	6.0	11.6	10.0
VCTA32251B-R22MS6	0.22	11.0	13.0	6.5	5.8	11.6	10.0
VCTA32251B-R33MS6	0.33	13.0	16.0	5.8	5.3	9.5	8.6
VCTA32251B-R47MS6	0.47	18.0	22.0	5.1	4.6	8.2	7.0
VCTA32251B-R68MS6	0.68	25.0	30.0	4.4	3.9	6.5	5.6
VCTA32251B-1R0MS6	1.0	30.0	36.0	3.9	3.6	5.2	4.5
VCTA32251B-1R5MS6	1.5	45.0	54.0	3.4	3.1	4.3	3.7
VCTA32251B-2R2MS6	2.2	62.0	75.0	2.8	2.5	3.8	3.3
VCTA32251B-3R3MS6	3.3	105.0	127.0	2.2	2.0	2.9	2.5
VCTA32251B-4R7MS6	4.7	150.0	180.0	1.8	1.6	2.5	2.2
VCTA32251B-6R8MS6	6.8	250.0	300.0	1.5	1.3	2.3	2.0
VCTA32251B-100MS6	10.0	340.0	400.0	1.1	1.0	1.6	1.3
VCTA32251B-150MS6	15.0	670.0	804.0	0.8	0.7	1.2	1.0

### VCTA32252T (3.2\*2.5\*2.0 mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCTA32252T-70NMS6	0.07	2.7	3.2	22.0	19.8	24.5	21.0
VCTA32252T-R10MS6	0.10	3.2	3.9	21.0	18.9	19.8	17.0
VCTA32252T-R22MS6	0.22	7.5	9.0	16.0	14.4	15.2	13.0
VCTA32252T-R47MS6	0.47	9.2	11.0	12.0	10.8	10.2	8.7
VCTA32252T-1R0MS6	1.0	19.0	23.0	7.2	6.5	8.4	7.5
VCTA32252T-1R5MS6	1.5	26.0	31.0	5.5	5.0	7.6	6.5
VCTA32252T-2R2MS6	2.2	35.0	46.0	5.4	4.9	6.2	5.0
VCTA32252T-3R3MS6	3.3	50.0	65.0	4.2	3.8	5.2	4.2
VCTA32252T-4R7MS6	4.7	75.0	98.0	3.0	2.7	4.3	3.4
VCTA32252T-220MS6	22.0	450	540	1.4	1.3	2.1	1.8

**VCTA32252E (3.2\*2.5\*2.5 mm)**


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, Idc (A)		Saturation current, Isat (A)	
		Typical	Max	Typical	Max	Typical	Max
VCTA32252E-R11MS6	0.11	3.0	4.0	12.0	11.0	17.0	15.0

## 4\*4 SERIES

### VCHA042A (4.2\*4.0\*2.1 mm)


 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA042A-R10MS62M	0.10	1.90	2.28	21.0	18.9	25.0	21.4
VCHA042A-R22MS62M	0.22	5.3	6.4	11.4	10.3	13.7	11.7
VCHA042A-R33MS62M	0.33	5.8	7.0	10.9	9.8	13.5	11.5
VCHA042A-R40MS62M	0.40	6.0	7.2	10.7	9.6	12.6	10.8
VCHA042A-R47MS62M	0.47	6.3	7.6	10.6	9.5	10.9	9.4
VCHA042A-R60MS62M	0.60	8.1	9.3	12.1	10.9	10.4	8.9
VCHA042A-R68MS62M	0.68	8.6	10.3	9.1	8.2	9.5	8.1
VCHA042A-1R0MS62M	1.0	9.1	10.5	8.9	8.0	7.9	6.7
VCHA042A-1R5MS62M	1.5	13.4	15.4	7.3	6.5	6.2	5.3
VCHA042A-2R2MS62M	2.2	20.9	23.0	5.8	5.3	5.3	4.5
VCHA042A-3R3MS62M	3.3	33.4	36.8	4.6	4.1	4.0	3.4
VCHA042A-4R7MS62M	4.7	48.6	53.8	4.0	3.6	4.6	3.6
VCHA042A-5R6MS62M	5.6	61.8	71.1	3.4	3.0	2.9	2.5
VCHA042A-6R8MS62M	6.8	80.5	92.5	2.9	2.6	2.6	2.2
VCHA042A-8R2MS62M	8.2	103.0	118.5	2.6	2.3	2.5	2.1
VCHA042A-100MS62M	10.0	112.0	129.0	2.5	2.2	2.4	2.0

### VCHW042A (4.2\*4.0\*2.1 mm)


 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHW042A-3R3MS5	3.3	38.0	43.7	4.9	4.4	5.0	4.3
VCHW042A-4R7MS5	4.7	48.6	53.8	4.0	3.6	4.6	3.9
VCHW042A-6R8MS5	6.8	88.5	106.2	3.0	2.7	3.9	3.4
VCHW042A-100MS5	10.0	160.0	192.0	2.3	2.0	3.5	3.0

## 5\*5 SERIES


### VCMT053T (5.45\*5.25\*3.0 mm)

 Part Number	L0 Inductance ( $\mu$ H)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
		VCMT053T-R33MN52M	0.33	4.5	5.0	16.7	15.0
VCMT053T-R47MN52M	0.47	6.9	7.9	12.4	11.2	14.0	12.0
VCMT053T-R68MN52M	0.68	8.6	9.74	11.3	10.2	11.7	10.0
VCMT053T-1R0MN52M	1.0	10.0	11.5	10.8	9.7	8.0	6.5
VCMT053T-1R5MN52M	1.5	15.4	17.7	8.2	7.4	7.1	5.9
VCMT053T-2R2MN52M	2.2	20.0	23.0	7.1	6.4	6.3	5.1
VCMT053T-3R3MN52M	3.3	33.0	38.0	5.5	5.0	5.5	4.7
VCMT053T-4R7MN52M	4.7	51.0	59.0	4.4	3.9	4.5	3.9
VCMT053T-6R8MN52M	6.8	80.0	92.0	3.5	3.1	3.5	3.0
VCMT053T-100MN52M	10.0	112.6	129.5	2.8	2.5	2.35	2.0
VCMT053T-150MN52M	15.0	170.0	196.0	2.4	2.2	2.2	1.9
VCMT053T-80NMS5	0.08	2.0	2.4	22.8	20.5	40.8	35.0


### VCMV053T (5.45\*5.25\*2.8 mm)

 Part Number	L0 Inductance ( $\mu$ H)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
		VCMV053T-1R0MN22M	1.0	12.1	14.5	9.1	8.2
VCMV053T-2R2MN22M	2.2	17.5	21.0	7.4	6.7	9.8	8.8
VCMV053T-3R3MN22M	3.3	29.0	34.8	5.9	5.3	8.5	7.3
VCMV053T-6R8MN22M	6.8	73.0	87.6	3.7	3.3	5.8	5.0


### VCHW053T-MS5 (5.45\*5.25\*3.0 mm)

 Part Number	L0 Inductance ( $\mu$ H)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
		VCHW053T-50NMS5	0.05	0.60	0.66	44	40
VCHW053T-70NMS5	0.07	0.70	0.77	40	36	50	42
VCHW053T-R10MS5	0.10	0.80	0.88	37	33	44	38

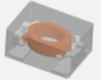
### VCUW053T (5.45\*5.25\*3.0 mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
		VCUW053T-R10MS5	0.10	1.8	2.1	24.0	22.0
VCUW053T-R22MS5	0.22	4.0	4.5	15.9	14.3	22.8	19.5
VCUW053T-R47MS5	0.47	6.0	7.2	13.0	11.7	12.8	11.0
VCUW053T-R68MS5	0.68	8.0	9.6	11.0	9.9	11.2	9.6
VCUW053T-1R0MS5	1.0	10.0	11.5	10.2	9.2	10.8	9.3
VCUW053T-1R5MS5	1.5	13.0	15.6	8.9	8.0	9.0	7.7
VCUW053T-2R2MS5	2.2	20.0	23.0	7.1	6.4	7.5	6.4
VCUW053T-3R3MS5	3.3	33.0	38.0	5.5	5.0	6.6	5.6
VCUW053T-4R7MS5	4.7	51.0	59.0	4.4	3.9	6.2	5.3
VCUW053T-6R8MS5	6.8	75.0	90.0	3.6	3.2	5.3	4.6
VCUW053T-100MS5	10.0	95.8	115.0	3.2	2.9	3.3	2.8
VCUW053T-150MS5	15.0	139.5	158.0	2.7	2.4	2.4	2.1
VCUW053T-220MS5	22.0	195.0	232.0	2.2	2.0	2.2	1.9

### VCHA054T (5.4\*5.2\*3.8 mm)


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
		VCHA054T-2R2MS6	2.2	21.8	24.0	6.9	6.2
VCHA054T-3R3MS6	3.3	26.8	29.5	6.5	5.1	8.8	7.5
VCHA054T-4R7MS6	4.7	35.9	39.5	5.0	4.5	7.8	6.7
VCHA054T-6R8MS6	6.8	48.0	57.6	4.3	3.9	6.3	5.4
VCHA054T-100MS6	10.0	84.0	92.4	3.2	2.9	5.0	4.3
VCHA054T-150MS6	15.0	100.0	120.0	2.8	2.5	3.5	3.0
VCHA054T-220MS6	22.0	158.0	174.0	2.4	2.2	3.4	2.9

### VCHW054T (5.4\*5.2\*3.8 mm)


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
		VCHW054T-R47MS5	0.47	4.20	5.04	14.5	13.1

## 6\*6 SERIES


### VCMT063T (6.0\*7.3\*3.0mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
		VCMT063T-R47MN5TM	0.47	3.85	4.62	17.0	15.3
VCMT063T-R68MN5TM	0.68	4.5	5.3	16.5	14.1	13.0	11.0
VCMT063T-1R0MN5TM	1.0	6.5	7.8	13.0	11.7	13.0	11.1
VCMT063T-1R5MN5TM	1.5	10.9	12.5	10.6	9.5	11.6	9.9
VCMT063T-2R2MN5TM	2.2	15.0	16.5	9.0	8.1	8.0	6.9
VCMT063T-3R3MN5TM	3.3	22.5	26.0	7.5	6.8	8.3	7.1
VCMT063T-4R7MN5TM	4.7	31.5	33.4	6.0	5.4	6.0	5.1
VCMT063T-6R8MN5TM	6.8	41.5	46.8	5.5	5.0	4.5	3.9
VCMT063T-100MN5TM	10.0	61.0	70.5	4.0	3.6	3.5	3.0
VCMT063T-150MN5TM	15.0	96.0	110.0	3.2	2.9	2.8	2.4
VCMT063T-220MN5TM	22.0	163.0	174.0	2.8	2.5	2.4	2.1


### VCMV063T (6.95\*6.6\*2.8mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
		VCMV063T-R15MN2TM	0.15	1.7	2.0	33.0	29.7
VCMV063T-1R0MN2TM	1.0	9.2	11.0	11.6	10.4	22.0	18.9
VCMV063T-2R2MN2TM	2.2	16.6	19.9	8.7	7.8	14.0	12.0
VCMV063T-4R7MN2TM	4.7	37.0	44.0	5.8	5.2	10.5	9.0
VCMV063T-100MN2TM	10.0	81.0	97.2	3.9	3.5	6.3	5.4
VCMV063T-150MN2TM	15.0	116.0	139.2	3.3	3.0	4.5	3.9


### VCUW064E MS5 (6.95 x 6.6 x 4.3mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
		VCUW064E-R22MS5	0.22	2.0	2.4	22.2	20.0
VCUW064E-R47MS5	0.47	3.0	3.6	18.1	16.3	25.0	21.0
VCUW064E-1R0MS5	1.0	5.2	6.2	13.3	12.0	23.9	16.5




 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCUW064E-1R5MS5	1.5	6.7	8.1	11.6	10.4	19.7	15.0
VCUW064E-2R2MS5	2.2	9.5	11.4	9.8	8.8	19.4	14.0
VCUW064E-3R3MS5	3.3	15.7	18.8	7.6	6.8	17.7	13.5
VCUW064E-4R7MS5	4.7	20.2	24.2	6.7	6.1	14.8	11.2
VCUW064E-6R8MS5	6.8	33.0	39.6	5.2	4.7	12.1	10.1
VCUW064E-8R2MS5	8.2	40.0	48.0	5.0	4.5	10.2	8.8
VCUW064E-100MS5	10.0	47.9	57.5	4.3	3.9	9.6	8.2
VCUW064E-150MS5	15.0	66.0	79.2	3.7	3.4	6.2	5.3
VCUW064E-220MS5	22.0	86.7	104.0	3.2	2.9	5.2	4.1
VCUW064E-330MS5	33.0	121.0	145.2	2.7	2.4	4.4	3.5
VCUW064E-470MS5	47.0	203.0	240.0	2.3	2.1	4.2	3.3
VCUW064E-680MS5	68.0	312.0	374.0	1.8	1.6	3.9	3.0
VCUW064E-101MS5	100.0	413.0	496.0	1.50	1.35	2.4	2.1

#### VCGA064G (6.0 x 6.0 x 4.5mm)


 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCGA064G-1R0MS5	1.0	9.0	10.8	7.80	6.63	14.4	12.0
VCGA064G-2R2MS5	2.2	18.0	21.6	5.53	5.05	10.0	8.6
VCGA064G-4R7MS5	4.7	35.0	42.0	3.95	3.36	7.0	5.8
VCGA064G-100MS5	10.0	57.0	68.4	3.40	2.89	4.7	4.0
VCGA064G-220MS5	22.0	143.0	171.6	2.20	1.87	3.4	2.9
VCGA064G-101MS5	100.0	540.0	648.0	1.10	1.00	1.4	1.2

## 7\*7 SERIES


### VCHA075D (7.7\*7.2\*5.4mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA075D-1R5MS6	1.5	6.1	7.3	11.4	10.3	16.3	14.0
VCHA075D-2R2MS6	2.2	9.5	11.4	9.7	8.7	14.8	12.7
VCHA075D-3R3MS6	3.3	14.0	15.4	8.0	7.2	13.5	11.6
VCHA075D-4R7MS6	4.7	19.0	20.9	7.0	6.3	13.1	11.2
VCHA075D-5R6MS6	5.6	21.5	24.0	6.5	5.9	10.6	9.1
VCHA075D-6R8MS6	6.8	24.2	26.6	6.1	5.5	10.2	8.7
VCHA075D-8R2MS6	8.2	29.0	31.9	5.6	5.0	9.0	7.7
VCHA075D-100MS6	10.0	34.5	38.0	5.2	4.7	8.0	6.9
VCHA075D-150MS6	15.0	60.0	66.0	3.8	3.4	6.9	5.9
VCHA075D-220MS6	22.0	85.0	93.5	3.3	3.0	6.3	5.4
VCHA075D-330MS6	33.0	116.0	127.6	3.2	2.8	4.9	4.2
VCHA075D-470MS6	47.0	156.0	171.6	2.4	2.2	4.1	3.5
VCHA075D-560MS6	56.0	182.0	209.3	2.2	2.0	3.3	2.8
VCHA075D-680MS6	68.0	222.0	255.0	2.0	1.8	2.8	2.4

### VCUW075D (7.7\*7.2\*5.4mm)


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCUW075D-101MS6	100.0	313.0	348.0	2.0	1.8	2.6	2.2

### VCSC076T (7.7\*7.2\*6.0mm)


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCSC076T-100MS6K	10.0	64.8	77.8	3.3	3.0	7.5	6.4
VCSC076T-150MS6K	15.0	87.3	105.0	2.8	2.5	5.1	4.3
VCSC076T-220MS6K	22.0	115.0	138.0	2.50	2.25	4.3	3.7

## 8\*8 SERIES


### VCHA084T (9.0\*8.3\*3.8)

 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA084T-70NMS6	0.07	0.45	0.55	79.0	71.0	80.0	70.0

### VCHW084T (8.7\*8.1\*3.8mm)


 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHW084T-R10MS5	0.10	0.50	0.60	61.4	55.2	64.0	55.0
VCHW084T-R22MS5	0.22	0.58	0.69	55.0	50.0	58.0	50.0
VCHW084T-R33MS5	0.33	1.0	1.2	41.0	37.0	40.0	35.0

### VCHA085D (8.7\*8.2\*5.4mm)


 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA085D-1R0MS6	1.0	4.0	4.8	18.0	16.2	22.0	18.9
VCHA085D-2R2MS6	2.2	6.0	7.2	15.0	13.5	16.7	14.3
VCHA085D-3R3MS6	3.3	9.8	11.8	14.0	12.6	16.3	14.0
VCHA085D-4R7MS6	4.7	13.0	15.6	9.2	8.3	16.0	13.7
VCHA085D-100MS6	10.0	32.0	36.0	5.8	5.2	14.0 N	12.0
VCHA085D-150MS6	15.0	44.0	52.8	5.2	4.7	7.8	6.7
VCHA085D-220MS6	22.0	56.0	67.0	4.5	4.1	7.2	6.2
VCHA085D-470MS6	47.0	122.0	135.0	2.9	2.6	5.6	4.8

## 10\*10 SERIES


### VCHA104T (10.85\*10.0\*3.8mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA104T-R78MS6	0.78	1.9	2.2	27.0	24.3	18.3	15.7


### VCHW104T (10.85\*10.0\*3.8mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHW104T-1R8MS5	1.8	4.5	5.0	17.0	15.3	21.0	18.0


### VCHA105D (10.85\*10.0\*5.4mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA105D-R68MS6	0.68	1.85	2.22	32.0	28.8	46.0	39.4
VCHA105D-1R0MS6	1.0	2.30	2.76	30.0	27.0	37.0	31.7
VCHA105D-1R5MS6	1.5	3.50	4.20	24.8	22.3	26.8	23.0
VCHA105D-2R2MS6	2.2	4.1	4.9	23.0	20.7	25.0	21.4
VCHA105D-3R3MS6	3.3	6.2	7.4	18.7	16.8	19.0	16.3
VCHA105D-4R7MS6	4.7	8.3	10.0	14.5	13.0	15.7	13.5
VCHA105D-6R8MS6	6.8	12.0	14.0	12.0	10.8	13.3	11.4
VCHA105D-8R2MS6	8.2	18.0	20.7	10.6	9.5	13.0	11.1
VCHA105D-100MS6	10.0	21.0	24.2	8.7	7.8	12.7	10.9
VCHA105D-150MS6	15.0	27.2	31.3	7.6	6.8	9.2	7.9
VCHA105D-220MS6	22.0	43.5	50.0	6.0	5.4	8.8	7.5
VCHA105D-330MS6	33.0	65.5	75.3	4.8	4.3	7.6	6.5
VCHA105D-470MS6	47.0	89.0	103.0	4.1	3.6	4.9	4.2
VCHA105D-680MS6	68.0	132.0	152.0	3.3	3.0	4.2	3.6


### VCUW105D (10.85\*10.0\*5.2mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCUW105D-R33MS5	0.33	1.1	1.21	47.0	42.3	56.7	48.6
VCUW105D-R68MS5	0.68	1.75	1.93	37.5	33.8	40.0	34.3


### VCHA106T (10.85\*10.0\*5.8mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHA106T-220MS6	22.0	40.0	46.0	5.6	5.0	9.2	7.9
VCHA106T-470MS6	47.0	68.0	75.0	4.3	3.9	5.9	5.1

### VCHW105D (10.85\*10.0\*5.4mm)


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCHW105D-R47MS5	0.47	1.6	1.92	35.0	31.5	39.7	34.0
VCHW105D-1R5MS5	1.45	3.75	4.60	23.5	21.2	35.1	30.1
VCHW105D-2R5MS5	2.5	5.3	5.9	21.0	18.9	27.2	23.3
VCHW105D-5R6MS5	5.6	10.0	12.0	15.0	13.5	15.0	13.0

### VCMT104T (11.2\*10.3\*4mm)


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCMT104T-2R2MN53M	2.2	8.0	8.76	12.3	11.1	13.9	11.9
VCMT104T-3R3MN53M	3.3	9.94	11.8	11.0	9.9	12.0	10.3
VCMT104T-4R7MN53M	4.7	13.2	15.0	9.8	8.8	11.0	9.4
VCMT104T-6R8MN53M	6.8	18.5	21.5	9.1	8.2	9.6	8.2
VCMT104T-8R2MN53M	8.2	25.3	29.0	7.7	6.9	7.1	6.1
VCMT104T-100MN53M	10.0	28.5	33.0	7.5	6.8	6.4	5.5
VCMT104T-150MN53M	15.0	42.5	49.0	6.0	5.4	5.4	4.6

VCMT104T-220MN53M	22.0	61.0	73.3	5.0	4.5	4.6	3.9
VCMT104T-330MN53M	33.0	89.0	102.0	4.0	3.6	4.2	3.5
VCMT104T-470MN53M	47.0	162.0	178.0	3.0	2.7	3.2	2.7
VCMT104T-R19MN54M	0.19	0.96	1.15	41.0	35.9	55.0	47.0
VCMT104T-R47MN54M	0.47	1.53	1.68	34.0	30.6	21.0	18.0
VCMT104T-R78MN54M	0.78	2.15	2.50	30.0	27.0	18.3	15.7
VCMT104T-1R0MN54M	1.0	2.70	3.10	23.7	21.3	20.4	17.5
VCMT104T-4R7MN53L	4.7	13.2	15.0	9.8		110	
VCMT104T-1R0MN5NL	1.0	2.7	3.1	23.0		18.0	


### VCMV104T (10.85\*10.0\*3.8mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCMV104T-1R0MN23M	1.0	3.7	4.10	23.0	20.7	35.0	30.0
VCMV104T-4R7MN23M	4.7	14.1	16.5	12.0	10.8	17.0	14.6
VCMV104T-5R6MN23M	5.6	17.5	19.3	10.8	9.7	16.0	13.7


### VCSC108T (10.85\*10.0\*8.0mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCSC108T-100MS6K	10.0	31.0	37.2	5.3	4.8	12.4	10.6
VCSC108T-150MS6K	15.0	39.0	46.8	5.0	4.6	10.6	9.1
VCSC108T-220MS6K	22.0	83.0	99.0	3.4	3.1	8.3	7.1
VCSC108T-470MS6K	47.0	108.0	129.6	2.9	2.6	6.1	5.2

### VCUW104T (10.85\*10.0\*4.0mm)


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCUW104T-680MS63	68.0	183	210	2.8	2.5	4.0	3.4
VCUW104T-101MS63	100.0	240	288	2.4	2.2	2.9	2.5

**VCM104T (11.2\*10.3\*4mm)**


 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCM104T-150MN53	15.0	47.0	52.0	5.1	4.6	6.5	5.6
VCM104T-330MN53	33.0	89.0	102.0	4.0	3.5	4.2	3.6

## 13\*13 SERIES

### VCMT136E-MN54M (13.8\*12.8\*6.5mm)


 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCMT136E-1R0MN54M	1.0	1.65	1.77	43.2	38.9	26.0	22.3
VCMT136E-2R2MN54M	2.2	4.0	4.5	21.0	18.9	17.5	15.0
VCMT136E-3R3MN54M	3.3	5.0	6.0	18.3	16.5	17.0	14.6
VCMT136E-4R7MN54M	4.7	8.0	8.7	15.0	13.5	13.5	11.6
VCMT136E-5R6MN54M	5.6	9.3	10.0	14.0	12.6	12.0	10.3
VCMT136E-6R8MN54M	6.8	9.8	11.3	14.2	12.8	10.5	9.0
VCMT136E-8R2MN54M	8.2	12.0	13.8	13.2	11.9	10.0	8.6
VCMT136E-100MN54M	10.0	15.2	17.2	11.0	9.9	9.2	7.9
VCMT136E-150MN54M	15.0	24.5	28.2	8.7	7.8	7.2	6.2
VCMT136E-330MN54M	33.0	60.0	69.0	5.5	5.0	4.3	3.7
VCMT136E-470MN54M	47.0	90.0	104.0	4.2	3.8	3.8	3.3

### VCMV136E (13.45\*12.6\*6.3mm)

 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCMV136E-R47MN24M	0.47	1.0	1.2	41.0	36.9	63.0	54.0
VCMV136E-1R5MN24M	1.5	2.3	2.75	27.6	24.8	45.0	38.0
VCMV136E-2R2MN24M	2.2	3.1	3.7	26.5	23.9	32.0	29.0
VCMV136E-3R3MN24M	3.3	5.7	6.6	22.9	20.6	35.0	30.0
VCMV136E-4R7MN24M	4.7	8.0	9.6	14.8	13.3	27.3	23.4
VCMV136E-100MN24M	10.0	14.7	17.6	10.9	9.8	18.8	16.1
VCMV136E-680MN24M	68.0	109.0	130.0	4.0	3.6	6.4	5.5




**VCM136E (13.45\*12.6\*6.3mm)**


 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCM136E-R47MN54M	0.47	1.1	1.3	41.0	36.9	63.0	54
VCM136E-1R0MN54M	1.0	1.7	2.1	32.0	27.4	50.0	42.8
VCM136E-1R5MN54M	1.5	2.5	3	26.3	23.7	36.0	30.9
VCM136E-2R2MN54M	2.2	3.1	3.7	22.0	20.5	34.0	29
VCM136E-3R3MN54M	3.3	4.6	5.6	18.6	16.5	30.0	25.7
VCM136E-4R7MN54M	4.7	5.9	6.9	17.1	15.4	21.3	18.2
VCM136E-6R8MN54M	6.8	9.2	11.4	14.2	12.8	21.2	18.2
VCM136E-100MN54M	10.0	13.6	16.3	11.7	10.7	17.5	15
VCM136E-150MN54M	15.0	21.8	25.0	9.2	8.3	12.5	10.7
VCM136E-330MN54M	33.0	52.50	57.75	5.88	5.30	11.40	9.77

## 17\*17 SERIES

### VCMV177T-MN2 (17.15\*16.95\*6.8mm)


 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCMV177T-2R2MN2	2.2	2.20	2.64	33.0	29.7	44.1	37.8
VCMV177T-150MN2	15.0	15.0	18.0	13.0	11.7	20.3	17.4
VCMV177T-330MN2	33.0	31.0	37.2	8.9	8.0	12.7	10.8

### VCMV177T-MN2NL (17.15\*16.95\*6.8mm)


 Part Number	LO Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VCMV177T-3R3MN2NL	3.3	3.4	4.1	30.0	27.0	37.8	32.8

## Audio Choke


### VAMV06077E (6.9\*7.6\*7.3mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VAMV06077E-1R0MM2	1.0	5.4	6.5	9.8	8.8	19.3	16.5
VAMV06077E-2R2MM2	2.2	10.0	12.0	7.2	6.5	15.8	13.5
VAMV06077E-3R3MM2	3.3	16.0	19.2	5.7	5.1	13.0	11.1
VAMV06077E-5R0MM2	5.0	25.0	30.0	4.5	4.1	12.0	10.3
VAMV06077E-6R8MM2	6.8	36.0	43.2	4.0	3.6	8.8	7.5
VAMV06077E-8R2MM2	8.2	38.3	45.9	3.7	3.3	7.7	6.6
VAMV06077E-100MM2	10.0	43.0	49.0	3.5	3.2	6.8	5.8
VAMV06077E-150MM2	15.0	75.0	90.0	2.7	2.4	6.0	5.1
VAMV06077E-220MM2	22.0	112.0	134.0	2.2	2.0	4.3	3.7

### VAMV08089A (8.15\*8.0\*8.9mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VAMV08089A-3R3MM2	3.3	13.2	15.8	6.3	5.6	16.8	14.4
VAMV08089A-6R8MM2	6.8	23.5	28.2	4.7	4.2	9.6	8.2
VAMV08089A-100MM2	10.0	33.0	40.0	4.0	3.6	8.0	6.8
VAMV08089A-150MM2	15.0	57.0	68.4	3.0	2.7	6.6	5.6
VAMV08089A-220MM2	22.0	88.0	105.0	2.4	2.2	4.6	3.9

### VAMV1009AA (10.2\*9.2\*10.85mm)

 Part Number	L0 Inductance (uH)	DCR (mOhm)		Heat rating current, I <sub>dc</sub> (A)		Saturation current, I <sub>sat</sub> (A)	
		Typical	Max	Typical	Max	Typical	Max
VAMV1009AA-1R0MM2	1.0	3.3	4.0	13.0	12.0	50.0	43.0
VAMV1009AA-2R2MM2	2.2	5.0	6.0	10.0	9.0	32.0	27.5
VAMV1009AA-3R3MM2	3.3	7.5	8.6	9.0	8.0	26.0	23.4
VAMV1009AA-5R6MM2	5.6	14.0	16.8	6.4	5.8	19.0	16.0
VAMV1009AA-100MM2	10.0	18.0	22.0	5.8	5.2	12.0	10.0
VAMV1009AA-150MM2	15.0	34.0	40.8	4.5	4.0	9.0	7.7
VAMV1009AA-220MM2	22.0	46.0	56.0	3.6	3.2	8.5	7.3

## Common Mode Choke (Auto-Grade)

### CAN-BUS Type

#### 3225 Series

Part Number	Dimension (mm)	Common Mode Inductance (uH)	Common Mode Impedance ( $\Omega$ )		DCR ( $\Omega$ )	Insulation Resistance ( M $\Omega$ )
			Typ.	Min.	Typ.	Max.
VFB3225-510	3.4 x 2.5 x 2.6	51	1000	2600	0.7	10
VFB3225-510-NB	3.4 x 2.5 x 2.6	51	1000	2600	0.7	10
VFB3225-101	3.4 x 2.5 x 2.6	100	2200	5100	1.5	10
VFC3225-101	3.4 x 2.5 x 2.6	100	2200	5100	2	10

#### 4532 Series

Part Number	Dimension (mm)	Common Mode Inductance (uH)	Common Mode Impedance ( $\Omega$ )		DCR ( $\Omega$ )	Insulation Resistance ( M $\Omega$ )
			Typ.	Min.	Typ.	Max.
VFB4532-220	4.5 x 3.2 x 2.6	22.0	500	1200	1.0	10
VFB4532-510	4.5 x 3.2 x 2.6	51.0	1000	3000	1.0	10
VFB4532-101	4.5 x 3.2 x 2.6	100.0	2000	6000	2.0	10

### Ethernet Type

Part Number	Dimension (mm)	Common Mode Inductance (uH)	DCR ( $\Omega$ )	Insulation Resistance ( M $\Omega$ )
			Typ.	Max.
VFE3225-201	3.4 x 2.5 x 2.6	200	5.5	10
VFE3225-800-NB	3.4 x 2.5 x 2.6	80	2.4	10
VFE3225-201-NB	3.4 x 2.5 x 2.6	200	5.5	10

# CONTACT US

Beside the standard products, we also make customize products according to your different request and specifications. If you have any question or request, please contact us. We will reply to you as soon as possible.

**Contact Window:** [service@cyntec.com](mailto:service@cyntec.com)

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