

CUSTOMER :	STD
PRODUCTS :	SHIELDED SMD POWER INDUCTOR
PART NO :	MCSHC Series
CUST P/ NO:	
DATE :	2021.08.30
SALES DEP:	
E-MAIL:	

VERSION :	REV.A
CHANGE PROJECT :	-
BEFORE :	-
AFTER :	-
CHANGE DATE :	-
CUSTOMER SIGNATURE :	-

APPROVAL BY :	CHECK BY :	DRAWN BY :
Honey Wei	Leo Wang	May Gao



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CHANGE	HISTORY			
Ver	Revision Items	Before Revision	After Revision	Date
Rev.A	-	_	-	2021.08.30
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TEL: 0512-6856-2977

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- · SHIELDED SMD POWER INDUCTOR
- \cdot Operating Temperature up tp -40 $^\circ\!\!C$ ~ 125 $^\circ\!\!C$
- · High Current up to 95.0A
- · Low DCR down to 0.18mOhms
- · Environmental Lead free
- · Environmental RoHS2.0 compliant
- · Environmental halogen free
- · Storage Temperature ∶ -40 °C to +125 °C.
- · Packaging 13"Reel, Plastic tape: 12~24 mm wide

FEATURES

- · Ferrite based with lower core loss
- · Frerrite High Bs material.
- Accurate&low DCR design
- · Ultra high current capacity.

Applications

- · Multi-phase and Vcore regulators.
- \cdot Server and desktop VRMs and EVRDs.
- · Data networking and storage systems.
- · Graphics cards and battery power systems.

· Buck Converter, VRMs.

PRODUCT IDENTIFICATION

MC	<u>SHC</u>	444	<u>Z</u>	<u>R10</u>	Μ	<u>R32</u>
1	2	3	4	5	6	\overline{O}

- ① Brand & Product classification
- 2 Product Series NO.(SHC : SMD Power Inductors.)
- ③ External Dimensions.(444 : L:4.0 × W:4.0 × H:4.0) [mm]
- 4 Separator code.
- **(5)** Nominal Inductance

Example	Nominal Value
R22	0.22uH
1R0	1.0uH
100	10uH
101	100uH
70NH	70nH

- (6) Inductance Tolerance.(L: ±15%; M: ±20%; N: ±30%)
- ⑦ Nominal DC Resistance.(R32 : $0.32m\Omega$)



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Code Dimensions A 4.0 Max B 4.2 Max C 4.0 Max D 1.4 Typ F 4.8±0.3 F 4.9.8±0.3 F 1.9.8±1.3 MCSHC444222NHMR32 22±20% 0.32±10% 26.0 22.0 20 19.0 MCSHC4442ENIMR32 100±20%							(Unit: mm)
B 4.2 Max C 4.0 Max C 4.0 Max C 4.0 Max E 1.3 Typ F 4.8±0.3 F 4.8±0.3 F 4.8±0.3 C 0.1 /t Typ F 4.8±0.3 C 0.0 /t /t Typ C 0.0 /t Typ C 0.0 /t Typ E 1.7 Ref C 0.9 Ref MCSHC444222NHMR32 22±20% 0.32±10% 26.0 22.0 20 19.0 MCSHC444226NHMR32 100±20% 0.32±10% 17.0 13.0 9.5 19.0 MCSHC4442R10MR32 100±20% 0.32±10% 17.0 13.0 9.5 19.						Code	Dimensions
C 4.0 Max D 1.4 Typ 65N F 4.8±0.3 C 0.1.7 Ref D 0.32±10% 40.0 40.0 34.0 34.0 MCSHC4442Z2NHMR32 65±20% 0.32±10% 26.0 22.0 19.0 MCSHC4442Z65NHMR32 65±20% 0.32±10% 17.0 13.0 9.5 19.0 MCSHC4442Z65NHMR32 100±20% 0.32±10% 10.0 MCSHC4442Z810MR32 100±20% 0.32±10% 17.0 13.0 9.5 MCSHC4442Z810MR32 100±20% 0.32±10% 17.0 13.0 9.5 MCSHC4						А	4.0 Max
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65N B F 4.8±0.3 Recommend Land Pattern Dimensions (Unit: mm) a 1.9 Ref b 1.7 Ref c 0.9 Ref b 1.7 Ref c 0.9 Ref 1.77 Ref C 0.9 Ref 1.77 Ref c 0.9 Ref 1.77 Ref Electrical Characteristics MCSHC4442Z2NHMR32 22±20% 0.32±10% 40.0 34.0 32 19.0 MCSHC4442Z8NHMR32 100±20% 0.32±10% 26.0 22.0 20 19.0 MCSHC444ZR10MR32 100±20% 0.32±10% 17.0 13.0 9.5 <			E		Ī	D	1.4 Тур
Recommend Land Pattern Dimensions (Unit: mm)					5	E	1.3 Typ
Recommend Land Pattern Dimensions (Unit: mm)	1 65N ^B					F	
Part Number Inductance ¹ DCR ² I-sat ^{1,2} I-sat ^{1,2} I-sat ^{1,2} Part Number Inductance ¹ DCR ² I-sat ^{1,2} I-sat ^{1,2} I-sat ^{1,2} MCSHC444Z22NHMR32 22±20% 0.32±10% 40.0 34.0 32 19.0 MCSHC444Z2NHMR32 25±20% 0.32±10% 26.0 22.0 20 19.0 MCSHC444Z2NHMR32 105±20% 0.32±10% 17.0 13.0 9.5 19.0 MCSHC444ZR10MR32 100±20% 17.0 13.0 9.5 19.0 MCSHC444ZR10MR32 100±20% 17.0 13.0 9.5 19.0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
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Part Number Inductance1 (nH) DCR ² (mQ) I-sat ^{3.1} (Amps)Max I-sat ^{3.2} (Amps)Max I-sat ^{3.3} (Amps)Max I-rms ⁴ (Amps)Typs MCSHC444Z22NHMR32 22±20% 0.32±10% 40.0 34.0 32 19.0 MCSHC444Z65NHMR32 65±20% 0.32±10% 26.0 22.0 20 19.0 MCSHC444Z65NHMR32 100±20% 0.32±10% 17.0 13.0 9.5 19.0 MCSHC444ZR10MR32 100±20% 0.32±10% 17.0 13.0 9.5 19.0 MCSHC444ZEST 100±20%						С	0.9 Ref
Part Number Inductance1 (nH) DCR ² (mQ) I-sat ^{3.1} (Amps)Max I-sat ^{3.2} (Amps)Max I-sat ^{3.3} (Amps)Max I-rms ⁴ (Amps)Typs MCSHC444Z22NHMR32 22±20% 0.32±10% 40.0 34.0 32 19.0 MCSHC444Z65NHMR32 65±20% 0.32±10% 26.0 22.0 20 19.0 MCSHC444Z65NHMR32 100±20% 0.32±10% 17.0 13.0 9.5 19.0 MCSHC444ZR10MR32 100±20% 0.32±10% 17.0 13.0 9.5 19.0 MCSHC444ZEST 100±20%							
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Part Number Inductance1 (nH) DCR ² (mQ) I-sat ^{3.1} (Amps)Max I-sat ^{3.2} (Amps)Max I-sat ^{3.3} (Amps)Max I-rms ⁴ (Amps)Typs MCSHC444Z22NHMR32 22±20% 0.32±10% 40.0 34.0 32 19.0 MCSHC444Z65NHMR32 65±20% 0.32±10% 26.0 22.0 20 19.0 MCSHC444Z65NHMR32 100±20% 0.32±10% 17.0 13.0 9.5 19.0 MCSHC444ZR10MR32 100±20% 0.32±10% 17.0 13.0 9.5 19.0 MCSHC444ZEST 100±20%							
Part Number Individing (nH) (mQ) (Amps)Max	Electrical Characteristics				r		1 4
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MCSHC444Z65NHMR32 65±20% 0.32±10% 26.0 22.0 20 19.0 MCSHC444ZR10MR32 100±20% 0.32±10% 17.0 13.0 9.5 19.0 MCSHC444ZR10MR32 100±20% 10.0 10.0 10.0 10.0 10.0 MCSHC444ZR10MR32 1.0 Vrms at 25°C 2.7 1.1 1.0 1.0 10.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
MCSHC444ZR10MR32 100±20% 0.32±10% 17.0 13.0 9.5 19.0 Image: Second Seco							100
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 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 	MCSHC444Z65NHMR32	65±20%	0.32±10%	26.0	22.0	20	19.0
 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 	MCSHC444Z65NHMR32	65±20%	0.32±10%	26.0	22.0	20	19.0
 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 	MCSHC444Z65NHMR32	65±20%	0.32±10%	26.0	22.0	20	19.0
 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 	MCSHC444Z65NHMR32	65±20%	0.32±10%	26.0	22.0	20	19.0
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 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 	MCSHC444Z65NHMR32	65±20%	0.32±10%	26.0	22.0	20	19.0
 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 	MCSHC444Z65NHMR32	65±20%	0.32±10%	26.0	22.0	20	19.0
 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 	MCSHC444Z65NHMR32	65±20%	0.32±10%	26.0	22.0	20	19.0
 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 	MCSHC444Z65NHMR32	65±20%	0.32±10%	26.0	22.0	20	19.0
 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 	MCSHC444Z65NHMR32	65±20%	0.32±10%	26.0	22.0	20	19.0
 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 	MCSHC444Z65NHMR32	65±20%	0.32±10%	26.0	22.0	20	19.0
 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 	MCSHC444Z65NHMR32	65±20%	0.32±10%	26.0	22.0	20	19.0
2.The nominal DCR is measured at 20 $^{\circ}$ C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25 $^{\circ}$ C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100 $^{\circ}$ C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125 $^{\circ}$ C	MCSHC444Z65NHMR32 MCSHC444ZR10MR32	65±20%	0.32±10%	26.0	22.0	20	19.0
3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25 $^{\circ}$ C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100 $^{\circ}$ C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125 $^{\circ}$ C	MCSHC444Z65NHMR32 MCSHC444ZR10MR32	65±20% 100±20%	0.32±10% 0.32±10%	26.0	22.0	20	19.0
3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100° C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125° C	MCSHC444Z65NHMR32 MCSHC444ZR10MR32	65±20% 100±20%	0.32±10% 0.32±10%	26.0 17.0	22.0	20	19.0
3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125 $^\circ\!\!\!\!^\circ$	MCSHC444Z65NHMR32 MCSHC444ZR10MR32	65±20% 100±20%	0.32±10% 0.32±10%	26.0 17.0	22.0 13.0	20	19.0
	MCSHC444Z65NHMR32 MCSHC444ZR10MR32	65±20% 100±20%	0.32±10% 0.32±10%	26.0 17.0	22.0 13.0	20	19.0
	MCSHC444Z65NHMR32 MCSHC444ZR10MR32 Note: 1.Inductance is measured at 1 2.The nominal DCR is measur 3.1The I-sat that will cause ini 3.2The I-sat that will cause ini	65±20% 100±20%	0.32±10% 0.32±10%	26.0 17.0	22.0 13.0 	20	19.0

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Mechanical & Dimensions						(Unit: mm)
					Code	Dimensions
					A	7.0 Max
⊢					В	7.0 Max
		_ <u></u>		·	С	5.0 Max
		E		A A	D	2.5±0.3
	Ă │ └└───				E	1.52±0.3
R10 ₿	♠ F.				F	6.05±0.5
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Recommend Land Pattern	Dimensions				1	(Unit: mm)
					Code	Dimensions
					a	2.8 Ref
					b	1.8 Ref
					С	5.75 Ref
Electrical Characteristics					I	
Deat Nearth an	Inductance ¹		I-sat ^{3.1}	I-sat ^{3.2}	I-rms⁴	
Part Number	Inductance ¹ (nH)	DCR ² (mΩ)	l-sat ^{3.1} (Amps)Max	l-sat ^{3.2} (Amps)Max	l-rms⁴ (Amps)Typs	
Part Number MCSHC75ZR15LR32						
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
MCSHC75ZR15LR32	(nH) 150±15%	(mΩ) 0.32±10%	(Amps)Max	(Amps)Max	(Amps)Typs	
MCSHC75ZR15LR32	(nH) 150±15%	(mΩ) 0.32±10%	(Amps)Max 30.0	(Amps)Max	(Amps)Typs	
MCSHC75ZR15LR32	(nH) 150±15%	(mΩ) 0.32±10%	(Amps)Max 30.0	(Amps)Max 24.0	(Amps)Typs	
MCSHC75ZR15LR32	(nH) 150±15%	(mΩ) 0.32±10%	(Amps)Max 30.0	(Amps)Max 24.0	(Amps)Typs	
MCSHC75ZR15LR32	(nH) 150±15%	(mΩ) 0.32±10%	(Amps)Max 30.0	(Amps)Max 24.0	(Amps)Typs	

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Mechanical & Dimensions (Unit: mm) Dimensions Code 6.4 Max A 9.6 Max В С 8.0 Max 2.14±0.2 D Е 2.3±0.3 В F 4.6±0.3 К 电阻测试点在 a 和 b 点 Fig. 26 **Recommend Land Pattern Dimensions** (Unit: mm) Dimensions Code 2.54 Ref а 3.2 Ref b a 4.0 Ref С **Electrical Characteristics** I-sat^{3.2} I-rms⁴ I-sat^{3.1} Inductance¹ DCR² Part Number (Amps)Max (Amps)Max (Amps)Typs (nH) (mΩ) MCSHC09608ZR10LR29 100±15% 0.29±10% 94.0 81.0 51 MCSHC09608ZR12LR29 120±15% 0.29±10% 79.0 68.0 51 MCSHC09608ZR15LR29 150±15% 0.29±10% 65.0 54.0 51 MCSHC09608ZR22LR29 220±15% 0.29±10% 44.0 37.0 51 MCSHC09608ZR28LR29 280±15% 0.29±10% 34.0 29.0 51 MCSHC09608ZR30LR29 300±15% 0.29±10% 32.0 27.0 51 Note: 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2. The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C

3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 125 $^\circ C$

4. The I-rms that will cause temperature rise approximate 40°C without core loss.

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Mechanical & Dimensions (Unit: mm) Dimensions Code 6.8±0.3 A Π 9.3±0.3 В 5.3±0.2 С 2.3±0.15 D Е 2.3±0.3 B F 4.8±0.3 ъ 9 / 电阻测试点在 a 和 b点 **Recommend Land Pattern Dimensions** (Unit: mm) Dimensions Code 2.6 Ref а 2.6 Ref b a 4.5 Ref С **Electrical Characteristics** I-sat^{3.1} I-sat^{3.2} I-sat^{3.3} I-rms⁴ Inductance¹ DCR² Part Number (nH) (mΩ) (Amps)Max (Amps)Max (Amps)Max (Amps)Typs 70±20% MCSHC09755Z70NHMR14 0.14±10% 100.0 85.0 75 65.0 Note: 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2. The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause initial inductance value approximately 20% rolloff at 25°C 3.2The I-sat that will cause initial inductance value approximately 20% rolloff at 100°C 3.3The I-sat that will cause initial inductance value approximately 20% rolloff at 125°C 4. The I-rms that will cause temperature rise approximate 40°C without core loss.

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Mechanical & Dimensions (Unit: mm) Dimensions Code 6.8±0.2 A \mathbb{D} A 10.0±0.3 В F 5.0 Max С 2.54±0.2 D Е 2.03±0.3 **R16** F 5.94±0.3 6 Q 电阻测试点在a和b点 **Recommend Land Pattern Dimensions** (Unit: mm) Dimensions Code 2.85 Ref а 2.3 Ref b a 5.6 Ref С **Electrical Characteristics** I-sat^{3.2} I-rms⁴ I-sat^{3.1} I-sat^{3.3} Inductance¹ DCR² Part Number (nH) (mΩ) (Amps)Max (Amps)Max (Amps)Max (Amps)Typs 150±20% MCSHC10705R16LR23 0.23±10% 53,≧115nH 45,≧115nH 45,≧95nH 37.0 Note: 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C 2.The nominal DCR is measured at 20°C ambient temperature. 3.1The I-sat that will cause rolloff nominal inductance value at 25°C 3.2The I-sat that will cause rolloff nominal inductance value at 85°C 3.3The I-sat that will cause rolloff nominal inductance value at 125°C

4. The I-rms that will cause temperature rise approximate 40°C without core loss.

2 F Specifications subject to change without notice. Please confirm according to our company for latest information.

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Mechanical & Dimensions						(Unit: m
					Code	Dimension
►A►		_			A	6.8±0.2
		V			В	10.0±0.3
		E			С	5.0 Max
					D	2.54±0.2
					E	2.03±0.3
R20		F L			F	5.94±0.3
			● ✓ 电阻测试点在a	▼ 6 和b点		<u> </u>
Recommend Land Pattern	Dimensions					(Unit: n
					Code	Dimension
					а	2.8 Ref
					b	2.4 Ref
					С	5.60 Ref
<u> </u>						
	-b- -					
lectrical Characteristics						
Part Number	Inductance ¹ (nH)	DCR ² (mΩ)	l-sat ³ (Amps)Max	l-rms⁴ (Amps)Typs		
MCSHC10705R20LR29	200±15%	0.29±10%	43,≧140nH	41.0		
ote:						
ote: Inductance is measured at ² The nominal DCR is measu						

4. The I-rms that will cause temperature rise approximate 40°C without core loss.



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Mechanical & Dimensions						(Unit: mm)
					Code	Dimensions
					Α	8.0 Max
					В	10.6 Max
		T			С	7.0 Max
		† †			D	2.1±0.2
↓		F_			E	2.2±0.3
		Ľ Ç			F	5.7±0.5
R10						
		Ċ	电阻测试点在	a和 b点		
Recommend Land Pattern	Dimensions					(Unit: mm)
					Code	Dimensions
г I	 				а	2.6 Ref
					b	3.0 Ref
					С	5.0 Ref
Electrical Characteristics	b-					
	Inductance ¹	DCR ²	I-sat ^{3.1}	I-sat ^{3.2}	l-rms⁴	
Part Number	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	
MCSHC10807ZR12LR29	120±15%	0.29±10%	94.0	86.0	61.0	
MCSHC10807ZR15LR29	150±15%	0.29±10%	75.0	60.0	61.0	
MCSHC10807ZR18LR29	180±15%	0.29±10%	60.0	50.0	61.0	
MCSHC10807ZR22LR29	220±15%	0.29±10%	50.00	40.0	61.0	
MCSHC10807ZR27LR29	270±15%	0.29±10%	41.00	33.0	61.0	
MCSHC10807ZR30LR29	300±15%	0.29±10%	35.00	30.0	61.0	
MCSHC10807ZR33LR29	330±15%	0.29±10%	33.00	26.0	61.0	
MCSHC10807ZR39LR29	390±15%	0.29±10%	28.00	22.0	61.0	
MCSHC10807ZR47LR29	470±15%	0.29±10%	23.00	19.0	61.0	
Note: 1.Inductance is measured at 1				<u>I</u>	1	

2.The nominal DCR is measured at 20° C ambient temperature.

3.1 The I-sat that will cause initial inductance value approximately 20% rolloff at 25 $^\circ \!\!\mathbb{C}$

3.2 The I-sat that will cause initial inductance value approximately 20% rolloff at 125° C

4. The I-rms that will cause temperature rise approximate 40°C without core loss.

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Mechanical & Dimensions						(Unit: mm)
					Code	Dimensions
					Α	8.0 Max
					В	10.4 Max
		T			С	7.5 Max
		↓ ↓			D	2.25±0.2
		FJ L			E	2.54±0.3
R10 B					F	5.1±0.5
		•				
		C	♀ ∕ 电阻测试点在	a 和 b点		
Recommend Land Pattern	Dimensions					(Unit: mm)
					Code	Dimensions
	— —, I				a	2.6 Ref
					b	2.8 Ref
					С	4.70 Ref
	-h- -					
_						
Electrical Characteristics					1	
Part Number	Inductance ¹ (nH)	DCR ² (mΩ)	I-sat ^{3.1} (Amps)Max	l-sat ^{3.2} (Amps)Max	l-rms⁴ (Amps)Typs	
				96.0		
MCSHC10875ZR12LR29	120±15%	0.29±10%	94.0	86.0	61.0	
MCSHC10875ZR15LR29	150±15%	0.29±10%	76.0	70.0	61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29	150±15% 170±15%	0.29±10% 0.29±10%	76.0 66.0	70.0 60.0	61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29	150±15% 170±15% 220±15%	0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0	70.0 60.0 43.0	61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29	150±15% 170±15% 220±15% 230±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0	70.0 60.0 43.0 40.0	61.0 61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29 MCSHC10875ZR27LR29	150±15% 170±15% 220±15% 230±15% 270±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0 40.0	70.0 60.0 43.0 40.0 34.0	61.0 61.0 61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29	150±15% 170±15% 220±15% 230±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0	70.0 60.0 43.0 40.0	61.0 61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29 MCSHC10875ZR27LR29	150±15% 170±15% 220±15% 230±15% 270±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0 40.0	70.0 60.0 43.0 40.0 34.0	61.0 61.0 61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29 MCSHC10875ZR27LR29	150±15% 170±15% 220±15% 230±15% 270±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0 40.0	70.0 60.0 43.0 40.0 34.0	61.0 61.0 61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29 MCSHC10875ZR27LR29	150±15% 170±15% 220±15% 230±15% 270±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0 40.0	70.0 60.0 43.0 40.0 34.0	61.0 61.0 61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29 MCSHC10875ZR27LR29	150±15% 170±15% 220±15% 230±15% 270±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0 40.0	70.0 60.0 43.0 40.0 34.0	61.0 61.0 61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29 MCSHC10875ZR27LR29	150±15% 170±15% 220±15% 230±15% 270±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0 40.0	70.0 60.0 43.0 40.0 34.0	61.0 61.0 61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29 MCSHC10875ZR27LR29	150±15% 170±15% 220±15% 230±15% 270±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0 40.0	70.0 60.0 43.0 40.0 34.0	61.0 61.0 61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29 MCSHC10875ZR27LR29	150±15% 170±15% 220±15% 230±15% 270±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0 40.0	70.0 60.0 43.0 40.0 34.0	61.0 61.0 61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29 MCSHC10875ZR27LR29 MCSHC10875ZR30LR29	150±15% 170±15% 220±15% 230±15% 270±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0 40.0	70.0 60.0 43.0 40.0 34.0	61.0 61.0 61.0 61.0 61.0	
MCSHC10875ZR15LR29 MCSHC10875ZR17LR29 MCSHC10875ZR22LR29 MCSHC10875ZR23LR29 MCSHC10875ZR27LR29	150±15% 170±15% 220±15% 230±15% 300±15%	0.29±10% 0.29±10% 0.29±10% 0.29±10% 0.29±10%	76.0 66.0 50.0 48.0 40.0	70.0 60.0 43.0 40.0 34.0	61.0 61.0 61.0 61.0 61.0	

3.1 The I-sat that will cause initial inductance value approximately 20% rolloff at 25 $^\circ\!\!\mathbb{C}$

3.2 The I-sat that will cause initial inductance value approximately 20% rolloff at 100° C

4. The I-rms that will cause temperature rise approximate 40°C without core loss.

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Mechanical & Dimensions (Unit: mm) Dimensions Code 8.0 Max A 10.4 Max В 8.0 Max С 2.1±0.2 D Е 2.54 ± 0.3 R10 F 4.7±0.5 B -6 9. 电阻测试点在 a 和 b点 **Recommend Land Pattern Dimensions** (Unit: mm) Dimensions Code 2.54 Ref а 3.65 Ref b a 4.06 Ref С

Electrical Characteristics

Part Number	Inductance ¹ (nH)	DCR² (mΩ)	l-sat ^{3.1} (Amps)Max	l-sat ^{3.2} (Amps)Max	l-sat ^{3.3} (Amps)Max	l-rms ⁴ (Amps)Typs
MCSHC10808ZR12LR18	120±15%	0.18±10%	95.0	84.0	77.0	68.0
MCSHC10808ZR15LR18	150±15%	0.18±10%	79.0	70.0	66.0	68.0
MCSHC10808ZR18LR18	180±15%	0.18±10%	62.0	56.0	52.0	68.0
MCSHC10808ZR22LR18	220±15%	0.18±10%	58.0	51.0	47.0	68.0

Note:

1.Inductance is measured at 100 KHz and 1.0 Vrms at 25 $^\circ\!\mathrm{C}$

2.The nominal DCR is measured at 20 $^\circ\!\mathrm{C}$ ambient temperature.

3.1 The I-sat that will cause initial inductance value approximately 20% rolloff at 25 $^\circ\!\mathrm{C}$

3.2 The I-sat that will cause initial inductance value approximately 20% $\,$ rolloff at 100 $^\circ\!\mathrm{C}$

3.3 The I-sat that will cause initial inductance value approximately 20% $\,$ rolloff at 125 $^\circ\!{\rm C}$

4. The I-rms that will cause temperature rise approximate 40°C without core loss.

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Mechanical & Dimensions (Unit: mm) Dimensions Code 7.2 Max A 11.2 Max В 7.5 Max С 1.9±0.2 D Е 2.5±0.3 F 5.8±0.5 **R10** 0 ⊾ 6 电阻测试点在 a 和 b点 **Recommend Land Pattern Dimensions** (Unit: mm) Dimensions Code 2.1 Ref а 3.1 Ref b 5.0 Ref С **Electrical Characteristics** I-rms⁴ I-sat^{3.2} Inductance^{1.1} Inductance^{1.2} I-sat^{3.1} Part Number (Amps)Max (Amps)Max (Amps)Typs (nH) (nH) (mΩ) MCSHC11775ZR12LR29 120±15% 86 min 0.29±10% 90.0 72.0 55.0 MCSHC11775ZR15LR29 150±15% 108 min 0.29±10% 70.0 56.0 55.0 MCSHC11775ZR23LR29 230±15% 166 min 0.29±10% 45.0 36.0 55.0 MCSHC11775ZR30LR29 300±15% 217 min 0.29±10% 35.0 28.0 55.0 MCSHC11775ZR40LR29 400±15% 288 min 0.29±10% 25.0 20.0 55.0 MCSHC11775ZR51LR29 510±15% 364 min 0.29±10% 18.0 14.5 55.0 Note:

1.1 Inductance is measured at 100 KHz and 1.0 Vrms at 25 $^\circ\!\mathbb{C}$

1.2 The Inductance is measured at I-sat $^{3.1}$ and 100 KHz and 0.1 Vrms at 25 $^\circ\!\mathbb{C}$

2.The nominal DCR is measured at 20 $^\circ\!\mathrm{C}$ ambient temperature.

3.1 The I-sat that will cause initial inductance value approximately 20% rolloff at $25^\circ\!C$

3.2 The I-sat that will cause initial inductance value approximately 20% $\,$ rolloff at 100 $^\circ\!\mathrm{C}$

4. The I-rms that will cause temperature rise approximate 40°C without core loss.

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Mechanical & Dimensions (Unit: mm) Dimensions Code 6.8±0.2 A В 10.5±0.3 5.0 Max С 2.54±0.2 D Е 2.3±0.3 B F 5.94±0.3 6 Q . 电阻测试点在 a 和 b点 **Recommend Land Pattern Dimensions** (Unit: mm) Dimensions Code 2.8 Ref а 2.6 Ref b a 5.60 Ref С **Electrical Characteristics** I-rms⁴ I-sat^{3.1} I-sat^{3.2} Inductance¹ DCR² Part Number (nH) (mΩ) (Amps)Max (Amps)Max (Amps)Typs MCSHC10705R16LHR23 160±15% 0.23±10% 60,≧70nH 60,≧70nH 40.0 Note: 1.Inductance is measured at 100 KHz and 1.0 Vrms at 25°C

2. The nominal DCR is measured at 20° C ambient temperature.

3.1The I-sat that will cause rolloff nominal inductance value at $25^\circ\!\mathbb{C}$

3.2The I-sat that will cause rolloff nominal inductance value at 100 $^\circ\!{\rm C}$

4.The I-rms that will cause temperature rise approximate 40°C without core loss.

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Mechanical & Dimensions						(Unit: mm
					Code	Dimensions
	Ŧ				A	7.0 Max
					В	10.5±0.3
		1 T			С	2.9 Max
		F-			D	2.3±0.2
		Ľ Ç			E	3.1±0.3
R15		•			F	4.3±0.5
		9	电阻测试点在 a	▼ ⁶ 和 b点		
Recommend Land Pattern	Dimensions					(Unit: mm
					Code	Dimensions
r					а	2.6 Ref
					b	3.4 Ref
					С	4.0 Ref
Electrical Characteristics Part Number	Inductance ¹ (nH)	DCR ² (mΩ)	I-sat ^{3.1} (Amps)Max	l-sat ^{3.2} (Amps)Max	I-rms ⁴ (Amps)Typs	;
	(nH)	(mΩ)	(Amps)Max	(Amps)Max	(Amps)Typs	

4. The I-rms that will cause temperature rise approximate 40°C without core loss.

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Packaging

Reel Dimension:



P/N	Туре	A(mm)	B(mm)	G(mm)	T(mm)	Chip/Reel
MCSHC444	13" x 12mm	330	100	12.5	16.7	2000
MCSHC75	13" x 16mm	330	100	16.5	20.7	1000
MCSHC09608	13" x 24mm	330	100	24.5	28.7	700
MCSHC09755	13" x 24mm	330	100	24.5	28.7	800
MCSHC10705(R23)	13" x 24mm	330	100	24.5	28.7	1000
MCSHC10705(R29)	13" x 24mm	330	100	24.5	28.7	1000
MCSHC10807(R29)	13" x 24mm	330	100	24.5	28.7	500
MCSHC10875(R29)	13" x 24mm	330	100	24.5	28.7	600
MCSHC10808(R18)	13" x 24mm	330	100	24.5	28.7	500
MCSHC11775(R29)	13" x 24mm	330	100	24.5	28.7	500
MCSHC10705H(R23)	13" x 24mm	330	100	24.5	28.7	800
MCSHC10703H(R40)	13" x 24mm	330	100	24.5	28.7	1200
II		1		1		1

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R

MORE 茂昌电子

Packaging

Tape Dimension: $\oplus \oplus \oplus$ $\phi \phi \phi \phi \phi \phi$ 后空200mm <u>前空300mm</u> P/N Ko Р W Ao Во MCSHC444 4.2±0.1 4.2±0.1 4.4±0.1 8.0±0.1 12.0±0.3 MCSHC75 7.3±0.1 7.3±0.1 5.2±0.1 12.0±0.1 16.0±0.3 6.7±0.1 10.3±0.1 8.2±0.1 12.0±0.1 MCSHC09608 24±0.3 MCSHC09755 7.2±0.1 9.8±0.1 5.7±0.1 12.0±0.1 24±0.3 MCSHC10705(R23) 7.2±0.1 9.4±0.1 5.3±0.1 12.0±0.1 24±0.3 MCSHC10705(R29) 7.5±0.1 10.4±0.1 12.0±0.1 24±0.3 5.1±0.1 MCSHC10807(R29) 8.2±0.1 10.7±0.1 7.6±0.1 16.0±0.1 24±0.3 MCSHC10875(R29) 10.6±0.1 7.6±0.1 12.0±0.1 24±0.3 8.2±0.1 MCSHC10808(R18) 8.4±0.1 10.5±0.1 8.2±0.1 16.0±0.1 24±0.3 MCSHC11775(R29) 7.4±0.1 11.4±0.1 7.5±0.1 16.0±0.1 24±0.3 MCSHC10705H(R23) 7.2±0.1 11±0.1 5.2±0.1 12.0±0.1 24±0.3 MCSHC10703H(R40) 7.2±0.1 10.9±0.1 3.0±0.1 16.0±0.1 24±0.3

MORE®

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Packaging

Tearing Off Force:



	The force tearing off cobe tape is 10 to 130 g.f					
	in the arrow direction under the following conditions					
	Room Temp	Room Humidity	Room atrn	Teaming Speed		
	(°C)	(%)	(hPa)	(mm/min)		
ipe	5~35	45~85	860~1060	300		

XStorage Conditions

R

MOR

- 1. Recommended products should be used within 6 months form the time of delivery.
- 2. The packaging material should be kept where no chlorine or sulfur exists in the air.

X Transportation

- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

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Reliability and Testing Conditions

Item	Specification	Conditions			
Operating temperature range	-40°C ~ +125°C (Including self-tempera	ture rise)			
Storage temperature and humidity range	-40°C ~ +85°C , 70% RH Max				
Solderability	More than 90% of the terminal electrode should be covered with solder.	 Preheat: 150 °C, 60 sec Solder: Sn96.5%-Ag3%-Cu0.5% Temperature: 245±5°C Flux for lead free: Rosin 9.5% Dip time: 4±1 sec Depth: completely cover the termination 			
Resistance to Soldering Heat	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	 Solder technique simulation: SMD Temperature (°C): 260 ± 5 (solder temp) Time (s): 10 ± 1 Temperature ramp / immersion and emersion rate: 25 mm/s ± 6 mm/s Number of heat cycles: 1 			
Resistance to High Temperature	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	500 hrs. at 125°C±5°C Unpowered. Measurement at 24±4 hours after test conclusion.			
Resistance to Low Temperature	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	500 hrs. at -40°C±5°C. Unpowered. Measurement at 24±4 hours after test conclusion.			
Resistance to Humidity	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	After 500 hours in $40\pm2^\circ\mathbb{C}$ and 90 to 95% humidity , and hour drying under normal condition.			
		After 100 cycles of following condition.			
Thermal shock	Inductance within ±20% of initial value. No disconnection or short circuit. The appearance shall not break.	StepTemperature (°C)Times (min.)1-40±5°C302Room TemperatureWithin 33125±5°C304Room TemperatureWithin 3			
Vibration Test	Inductance within ±10% of initial value and appearance shall not break.	After vibration for 1hour, In each of three orientations at sweep vibration (10~55~10Hz) with 1.52mm P-P Amplitudes.			
Terminal strength	The terminal electrode and the ferrite must not be damaged	Solder a chip to test substrate, and then laterally apply a load 10N in the arrow direction, Duration :5s			
Drop Test	Inductance within ±20% of initial value. The appearance shall not break.	Drop 3 times on a concrete floor from a height of 75cm by inimum packing			

MORE Specifications subject to change without notice.Please confirm according to our company for latest information.

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