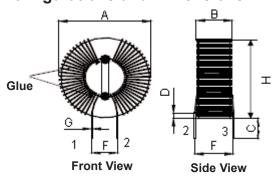


PART NO.

MCT18X10X10C-103NU

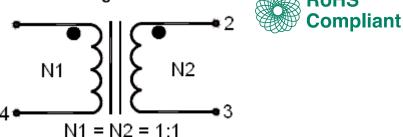
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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	SID	20/4/11	ВНА	20/4/11		04/5/11

Configurations and Dimensions



Α	23 mm	(Max.)
В	13.5 mm	(IVIAX.)
С	15 ±1 mm	-
D	0 to 4 mm	-
E	7.5 mm	(Ref.)
F	11.5 mm	(Nel.)
G	Ø0.5 mm	(Typ.)
Н	23 mm	(Max.)

Schematic Diagram



Note:

- 1. Wire UEFN/U (155°C) Ø0.5mm
- 2. N1 = N2 = 35TS (Reference) N1:C.W N2:C.CW

Electrical Characteristics

Test Condition		
10 KHz / 50 μA	L (1-4)	10 mH ±30%
10 ΚΠ2 / 30 μΑ	L (2-3)	10 11111 ±30 /6
T _a = 25°C	DCR (1-4)	125 mΩ (Max.)
1 _a - 25 0	DCR (2-3)	125 HISZ (Wax.)
	IDC	2 A

Operating temperature: -25°C to +85°C

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	
Specification	23 (Max.)	13.5 (Max.)	15 ±1	0 to 4	7.5 (Ref.)	11.5 (Ref.)	Ø0.5 (Typ.)	23 (Max.)	
1	20.96	12.61	15.17	2.57	7.84	11.6	0.49	20.26	
2	20.31	12.53	15.22	2.58	7.74	11.57	0.5	20.33	
3	20.34	12.63	15.08	2.62	7.71	11.57	0.5	20.3	
4	20.26	12.58	15.49	2.73	7.4	11.31	0.49	20.27	
5	20.05	12.62	14.89	2.8	7.28	11.68	0.49	20.15	
Average	20.38	12.59	15.17	2.66	7.59	11.55	0.49	20.26	

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ВНА	20/4/11
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	04/5/11

: _	DRAWING TITLE:							
	Common Mode Choke							
:	SIZE	DWG NO.	144000007	ELECTRONIC FILE REV				
	Α		M10003237	MCT18X10X10C-103NU A				
:	SCVI	F: NTS	II O M · mm	SHEET: 1 OF 3				



PART NO.

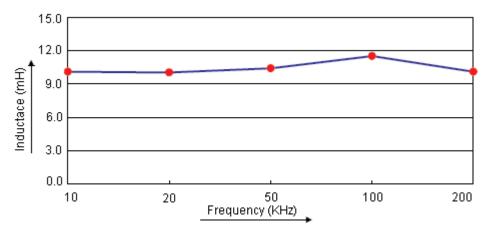
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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	SID	20/4/11	ВНА	20/4/11		04/5/11

Test Data for Electrical

Test Item	L (1-4) mH	L (2-3) mH	DCR (1-4) mΩ	DCR (2-3) mΩ
Condition	10 KHz / 50 μA	10 KHz / 50 μA	T _a = 25°C	T _a = 25°C
Specification	10 ±30%	10 ±30%	125 (Max.)	125 (Max.)
1	9.42	9.42	96.66	96.28
2	9.8	9.8	96.69	95.81
3	10.35	10.35	95.66	95.64
4	10.4	10.4	96.76	96.13
5	10.1	10.1	97.82	96.07
Average	10.01	10.01	96.72	95.99

Electric Characteristics



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ВНА	20/4/11
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	04/5/11

DRAWI	NG TITLE:								
Common Mode Choke									
SIZE A	DWG NO.	M10003237	ELECTRONIC FILE MCT18X10X10C-103NU			IU	REV A		
SCAL	E: NTS	U.O.M.: mm		SHEET:	2	OF	3		



PART NO.

MCT18X10X10C-103NU

REVISIONS								
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-	Α	RELEASED	SID	20/4/11	ВНА	20/4/11		04/5/11

Reliability Test

Test Item	Specifications		Test Method and Remarks			
Operating temperature range	-25°C to +85°C		Including temperature rise due to self-generated heat.			
Storage condition	Ambient temperature Humidity	: 0°C to 40°C : Below 70% RH	To maintain the solderability of terminal electrodes, care must be taken to control temperature and humidity in the storage area.			
Moisture sensitivity	Appearance DCR change Inductance change	: No abnormality No damage : Within ±5% : Within ±5%	According to J-STD Test condition Test duration Recovery	-020B level 3 : 60°C 60% RH : 40 hrs : 1 to 2 hours of recovery under the standard condition after the removal from the test chamber.		
Solderability	All termination shall exhibit a continuous solder coating free from defects for a minimum of 95% of the surface area of any individual lead.		According to J-STD Steam aging categore Steam aging duration Solder Solder temperature Dip time	ory: 97°C 98% RH on: 8 hrs : Lead-free solder		

Material List

No.	Item	Material Description A07 T18 × 10 × 10C (Red) Ø0.5 mm UEFN/U (155°C) ree) Sn99.3% / Cu0.7%		
1	Core			
2	Wire			
3	Solder (Lead-free)			
4	Vernish	T-4260 (a) / TX-111		
5	Space	FR4 (thickness 2 mm)		
6	Glue	TH100A and TH100B		

Part Number Table

Description	Part Number		
Choke, Common Mode, 10MH, 2A	MCT18X10X10C-103NU		

http://www.element14.com

http://www.farnell.com

http://www.newark.com

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	04/5/11

:	DRAWI	NG TITLE:						
	Common Mode Choke							
:	SIZE DWG NO.					ELECTRONIC FILE		
	Α		M10003237		MCT18X10X10C-103NU			Α
:	SCALE: NTS		U.O.M.: r	nm			3 0	F 3