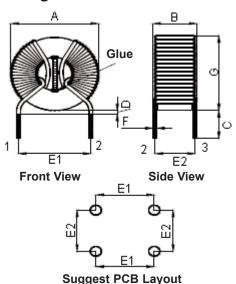


PART NO.

MCT25X15X15C-502NU

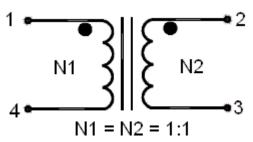
	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	SID	20/4/11	ВНА	20/4/11		04/5/11

Configurations and Dimensions



Α	30 mm	(Max.)
В	21 mm	(IVIAX.)
С	8 mm	(Ref.)
D	1 mm	(Max.)
E1	23 ±3 mm	-
E2	15 ±3 mm	-
F	Ø0.8 mm	(Typ.)
G	27.5 mm	(Max.)

Schematic Diagram





- 1. Wire UEFN/U (155°C) Ø0.8mm
- 2. N1 = N2 = 22TS (Reference) N1:C.W N2:C.CW

RoHS Compliant

Electrical Characteristics

Test Condition		
10 KHz / 50 μA	L (1-4)	5 mH ±30%
10 ΚΠ2 / 30 μΑ	L (2-3)	3 IIII ±30 %
T _a = 25°C	DCR (1-4)	45 mΩ (Max.)
1 _a - 25 0	DCR (2-3)	45 III22 (IVIAX.)
	IDC	6A
HI-Pot (Coil	to Coil)	1,500 V ac 5 mA 1min

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Operating temperature : -25°C to +85°C

TOLERANCES:

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SID	20/4/11
CHECKED BY:	DATE:
ВНА	20/4/11
APPROVED BY:	DATE:
	04/5/11

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E1 mm	E2 mm	F mm	G mm
Specification	30 (Max.)	21 (Max.)	8 (Ref.)	1 (Max.)	23 ±3	15 ±3	Ø0.8 (Typ.)	27.5 (Max.)
1	28.28	18.85	8.35	0.18	23.8	15.8	0.8	25.53
2	28.38	18.4	8.26	0.15	23.62	16.25	0.76	25.88
3	28.19	18.42	8.51	0.2	23.73	16.52	0.78	25.59
4	28.46	18.7	8.6	0.16	23.95	16.75	0.75	25.4
5	28.49	10.7	8.39	0.22	24.25	16.71	0.76	25.89
Average	28.36	18.61	8.42	0.18	23.87	16.41	0.77	25.66

Ε:	DRAWI	NG TITLE:					
			Common Mod	e Ch	oke		
E:	SIZE	DWG NO.	M10003238		TRONIC FILE 25X15X15C-50	2NU	REV A
E:	SCAL	E: NTS	U.O.M.: mm		SHEET: 1	OF	= 3



PART NO.

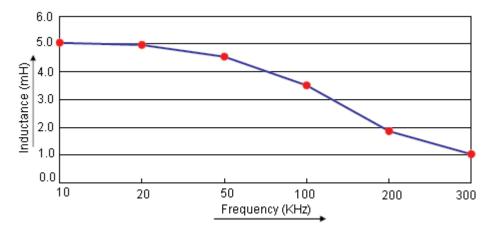
MCT25X15X15C-502NU

	REVISIONS							
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	HI-Pot (Coil to Coil)
Condition	10 KHz / 50 μA 10 KHz / 50 μ.		/ 50 μA		1,500 V ac 5 mA 1 (Min.)
Specification	5 ±30%	5 ±30%	45 (Max.)	45 (Max.)	Pass
1	4.88	4.86	35.36	35.42	
2	4.9	4.9	35.39	35.4	
3	5.54	5.56	35.53	35.56	Pass
4	5.72	5.74	36.56	36.55	
5	5.76	5.78	35.16	35.2	
Average	5.36	5.37	35.6	35.63	Pass

Electric Characteristics



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	CHECKED BY:	DATE:
	ВНА	20/4/11
	APPROVED BY:	DATE:
		04/5/11

	DRAWI	NG TITLE:									
	Common Mode Choke										
	SIZE A	DWG NO.	M10003238	· ·	TRONIC FIL 25X15X15C-		U	REV A			
SCALE: NTS U.O.M.: mm SHEET: 2 C						OF	3				



PART NO.

MCT25X15X15C-502NU

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

Reliability Test

Test Item	Specifi	ications		Test Method and Remarks	
Operating temperature range	Operating temperature range -25°C to +85°C			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 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-0 Test condition Test duration Recovery	20B 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-0 Steam aging category Steam aging duration Solder Solder temperature Dip time	: 97°C 98% RH	

Part Number Table

Description	Part Number
Choke, Common Mode, 1MH, 6A	MCT25X15X15C-502NU

http://www.element14.com

http://www.farnell.com

http://www.newark.com

REV

Α

SHEET: 3 OF 3

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CHECKED BY:	DATE:	
ВНА	20/4/11	
APPROVED BY:	DATE:	
	04/5/11	

SCALE: NTS

DRAWING TITLE:

Common Mode Choke

SIZE DWG NO. M10003238 ELECTRONIC FILE MCT25X15X15C-502NU

U.O.M.: mm