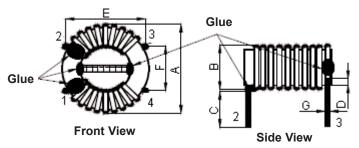


PART NO.

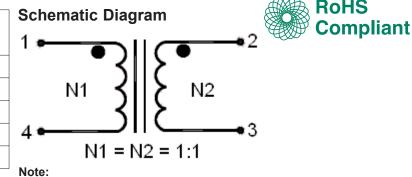
### MCT25X12X15C-850PU

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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	31 mm	(Max.)
В	16 mm	(IVIAA.)
С	10 ±0.5 mm	-
D	0 to 5 mm	-
Е	25.5 ±0.5 mm	-
F	14 ±0.5 mm	-
G	Ø1.06 mm	(Ref.)



- 1. Wire UEFN/U (155°C) Ø1.0mm
- 2. N1 = N2 = 10TS (FIX) N1:C.W N2:C.CW

#### **Electrical Characteristics**

Test Condition		
1 KUz 10 mA (ALC on)	L (1-4)	95 uH ±250/
1 KHz 10 mA (ALC on)	L (2-3)	85 μH ±25%
T <sub>a</sub> = 25°C	DCR (1-4)	13 mΩ (Max.)
1 <sub>a</sub> - 25 0	DCR(2-3)	13 IIIsz (IVIAX.)
	IDC	12A (Max.)
HI-POT (Coil to	1,500 V ac 5 mA 2 s	

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
Specification	31 (Max.)	16 (Max.)	10 ±0.5	0 to 5	25.5 ±0.5	14 ±0.5	Ø1.06 mm (Ref.)
1	28.99	14.96	10.17	2.23	25.57	14.2	0.97
2	28.62	15	10.23	2.54	25.46	14.17	0.99
3	28.92	15.11	10.06	3.12	25.72	14.15	0.99
4	28.72	14.91	10.14	2.25	25.64	14.23	0.97
5	29.07	14.97	10.15	2.13	25.4	14.06	0.98
Average	28.86	14.99	10.15	2.45	25.56	14.06	0.98

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DRAWING TITLE:

SCALE: NTS

Common Mode Choke

SIZE DWG NO. ELECTRONIC FILE

M10003239 MCT

ELECTRONIC FILE REV
MCT25X12X15C-850PU A

U.O.M.: mm SHEET: 1 OF 3



PART NO.

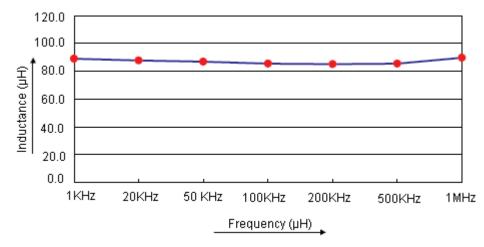
# MCT25X12X15C-850PU

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### **Test Data for Electrical**

Test Item	L (1-4) μΗ	L (2-3) μΗ	DCR (1-4) mΩ	DCR (2-3) mΩ	HI-POT (Coil to Coil)
Condition	1 KHz 10 mA (ALC on)			T <sub>a</sub> = 25°C	1,500 V ac 5 mA 2 s
Specification	85 ±25%	85 ±25%	13 (Max.)	13 (Max.)	Pass
1	92.3	92.52	8.97	9.02	
2	92.64	92.9	8.98	9.01	
3	91.72	91.4	9.11	8.99	Pass
4	91.48	91.78	9.04	9.12	
5	92.56	92.7	9.01	8.99	
Average	92.14	92.26	9.02	9.03	Pass

## **Electric Characteristics**



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:	DRAWI	NG TITLE:						
			Common Mod	e Ch	oke			
≣:	SIZE	DWG NO.	M10003239	ELEC	TRONIC FIL	LE .		REV
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PART NO.

# MCT25X12X15C-850PU

	REVISIONS							
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# **Reliability Test**

Test Item	Specifications		Test Method and Remarks			
Operating temperature range	-55°C to +130°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 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-002B Steam aging category : 97°C 98% RH Steam aging duration : 8 hrs			

#### **Material List**

No.	Item	Material Description		
1	Core	C5A T25 × 15 × 12C		
2	Wire	Ø1.0 mm UEFN/U (155°C)		
3	Solder (Lead-free)	Sn99.3% / Cu0.7%		
4	Vernish	T-4260 (a) / TX-111		
5	Space	FR4 (thickness 2.0 mm)		
6	Glue	TH100A and TH100B		

# **Part Number Table**

Description	Part Number	
Choke, Common Mode, 85µH, 12A	MCT25X12X15C-850PU	

http://www.element14.com

**REV** 

Α

http://www.farnell.com

http://www.newark.com

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DRAWING TITLE: **Common Mode Choke** DWG NO. **ELECTRONIC FILE** SIZE M10003239

MCT25X12X15C-850PU SCALE: NTS U.O.M.: mm SHEET: 3 OF 3