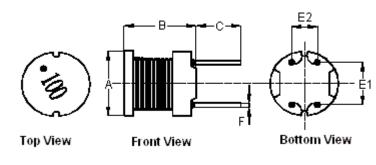
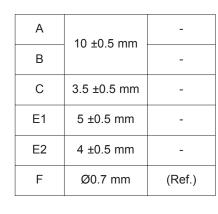
multicomp	PART NO.			REVISIONS						
	MCSCH110-100MU	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	А	RELEASED	VEE	20/4/11	SHA	20/4/11		04/5/11

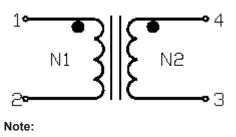
Configurations and Dimensions



Note : White dot of marking indicates the start terminal of winding



Schematic Diagram



RoHS

Compliant

1. Wire UEFN/U (155°C) Ø0.5mm × 2

2. N1 = N2 = 14.5TS (Reference) C.W

Electrical Characteristics

Test Condition		
10 KHz 0.1 V	L	10 µH ±20%
T _a = 25°C	DCR	22 mΩ (Max.)
10 KHz 0.1 V I _{rms} = 5.3 A	ΔΤ	Temperature rise 40°C (Max.)

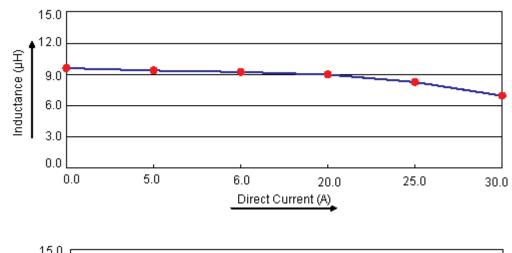
Operating temperature : -55°C to +130°C

Test Data for Mechanical

Test Item	A mm	B mm	C mm	E1 mm	E2 mm	F mm
Specification	10 ±0.5	10 ±0.5	3.5 ±0.5	5 ±0.5	4 ±0.5	Ø0.7 (Ref.)
1	10.2	9.82	3.69	5.12	3.98	0.68
2	10.26	9.85	3.49	4.92	4.14	0.67
3	10.19	9.87	3.42	5.17	4.18	0.68
4	10.21	9.91	3.77	5.01	4.08	0.00
5	10.2	9.81	3.65	4.98	3.91	0.67
Average	10.21	9.85	3.6	5.04	4.06	0.68

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plied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
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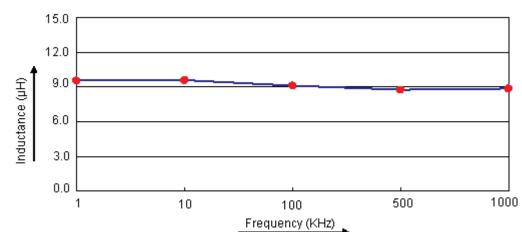
multicomp	PART NO.		REVISIONS							
	L L L L L L L L L L L L L L L L L L L	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	А	RELEASED	VEE	20/4/11	SHA	20/4/11		04/5/11



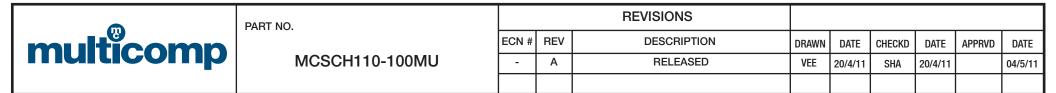
Electric Characteristics



Test Item	L µH	DCR mΩ	ΔΤ
Condition	10 KHz 0.1 V	at 25°C	10 KHz 0.1 V I _{rms} = 5.3 A
Specification	10 ±20%	22 (Max.)	Temperature rise 40°C (Max.)
1	9.58	13.96	
2	9.55	14.42	
3	9.57	14.44	ОК
4	9.62	14.11	
5	9.56	14.21	
Average	9.58	14.23	ОК



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plied. The Information supplied is believed to be accurate but the Grou responsibility for its accuracy or completeness, any error in or omissio	n from it or for any	PECIFIED,	CHECKED BY:	DATE:	SIZE	DWG NO.		ELEC	TRONIC FILE	RE\
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Reliability Test

Test Item	Specif	ications		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						
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		whibit a continuous solder cts for a minimum of 95% any individual lead.	According to J-STD-0 Steam aging category Steam aging duration Solder Solder temperature Dip time	2 : 97°C 98% RH			

Material List

No.	ltem	Material Description
1	Core	M4SDR4W10 × 10 D31M C4.4
2	Wire	Ø0.5 mm × 2 UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number
Inductor, 10µH, 20%, Radial Leaded	MCSCH110-100MU

http://www.element14.com

http://www.farnell.com

http://www.newark.com

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