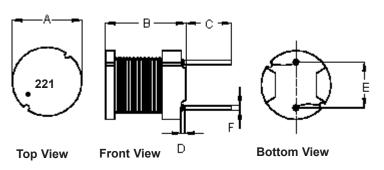


PART NO.

MCSCH895-221KU

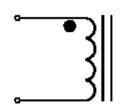
	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	A RELEASED		20/4/11	SAN	20/4/11		04/5/11

Configurations and Dimensions



Α	7.8 ±0.5 mm	-
В	9.5 ±0.5 mm	-
С	5 ±1 mm	-
D	3 mm	(Max.)
Е	5 ±0.5 mm	-
F	Ø0.7 mm	(Ref.)

Schematic Diagram





Note:

- 1. Wire UEFN/U (155°C) Ø0.3mm
- 2. 83.5TS (Reference) C.W

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

Electrical Characteristics

Test Condition		
1 KHz 0.25 V	L	220 μH ±10%
T _a = 25°C	DCR	480 mΩ (Max.)
1 KHz 0.25 V I _{rms} = 0.64 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	D mm	E mm	F mm
Specification	7.8 ±0.5	9.5 ±0.5	5 ±1	3 (Max.)	5 ±0.5	Ø0.7 (Ref.)
1	7.8	9.49	5.17	1.38	4.99	0.69
2	7.81	9.47	5.18	1.27	5.1	0.68
3	7.82	9.45	5.12	1.38	4.92	0.7
4	7.8	9.47	5.11	1.44	5.11	0.69
5	7.81	9.48	5.34	1.25	5.11	0.68
Average	7.81	9.47	5.18	1.34	5.05	0.69

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CHECKED BY:	DATE:
SAN	20/04/11
APPROVED BY:	DATE:
	04/05/11

DRAWING TITLE: SIZE

SCALE: NTS

Inductor - Radial Leaded

DWG NO. M10002998

U.O.M.: mm

ELECTRONIC FILE MCSCH895-221KU

SHEET: 1 OF 3

REV

Α



PART NO.

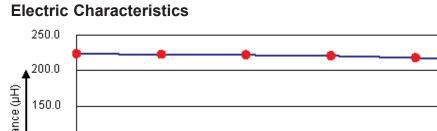
MCSCH895-221KU

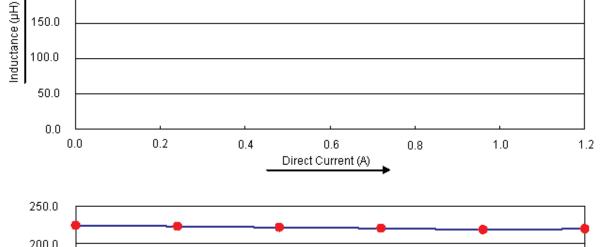
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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	ARU	20/4/11	SAN	20/4/11		04/5/11

Test Data for Electrical

Average

219.02





L **DCR Test** ΔT Item μΗ $\mathsf{m}\Omega$ 1 KHz 0.25 V Condition 1 KHz 0.25 V at 25°C $I_{rms} = 0.64 A$ Temperature rise 40°C 480 Specification 220 ±10% (Max.) (Max.) 1 219.78 420.3 2 219.15 419.8 OK 3 218.64 417.5 218.26 418.9 5 219.26 418.5

419

OK

	200.0		•	_	-	•	
H)	150.0						
Inductance (µH)	100.0						
Indu	50.0						
	0.0			ı			
		1	10	100 Frequenc	200 y (KHz)	500	1000

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SAN	20/04/11
APPROVED BY:	DATE:
	04/05/11

:	DRAW	ING TITLE:						
			Inductor - Radi	ial Le	eaded			
:	SIZE	DWG NO.	N/1000000	ELEC	TRONIC FIL	.E		REV
	Α		M10002998		SCH895-2	21KL	J	Α
:	SCALE: NTS		U.O.M.: mm		SHEET:	2	OF	3



PART NO.

MCSCH895-221KU

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

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		: 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	DCR 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-0i Steam aging category Steam aging duration Solder Solder temperature Dip time	: 97°C 98% RH	

Material List

No.	Item	Material Description
1	Core	F6D DR2W7.8 × 9.5 (SW) RCH B3.6 F5.4 P5
2	Wire	Ø0.3 mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Part Number Table

Description	Part Number	
Inductor, 220µH, 10%, Radial Leaded	MCSCH895-221KU	

http://www.element14.com

http://www.farnell.com

http://www.newark.com

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APPROVED BY:	DATE:		
	04/05/11		

:	DRAWI	NG TITLE:					
l	Inductor - Radial Leaded						
:	SIZE DWG NO.			ELEC	ELECTRONIC FILE		
	Α		M10002998	MCSCH895-221KU			Α
i:	SCAL	E: NTS	U.O.M.: mm		SHEET:	3 OF	= 3