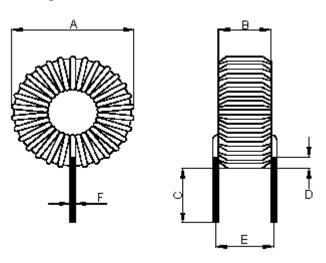


PART NO.

MCAP106020040A-900MU

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

Configurations and Dimensions



А	18.5 mm	(Max.)
В	10.5 mm	(IVIAX.)
С	15 ±2 mm	-
D	1 mm	(Min.)
E	7.5 ±2 mm	-
F	Ø0.8 mm	(Ref.)

Schematic Diagram



REV

Α



- 1. Wire UEFN/U (155°C) Ø0.8mm
- 2. 42TS (Reference) C.W

Electrical Characteristics

Front View

Test Condition		
10 KHz / 5 mA	L	90 μH ±20%
T _a = 25°C	DCR	40 mΩ (Max.)
10 KHz / 5 mA I _{rms} = 3 A	ΔΤ	Temperature rise 40°C (Max.)

Side View

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	18.5 (Max.)	10.5 (Max.)	15 ±2	1 (Min.)	7.5 ±2	Ø0.8 (Ref.)
1	18.05	9.53	16.1	1.3	7.8	
2	18.12	9.52	15.5	1.5	7.1	
3	18.02	9.58	15.5	1.6	7.4	0.8
4	18.1	9.5	15.2	1.2	7.1	
5	18.03	9.62	16.2	1.3	7.77	
Average	18.06	9.55	15.7	1.38	7.43	0.8

Important Notice: This data sheet and its contents (the "Information") belong to the men bers of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. 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 use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its neglience. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2011.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

TOLERANCES:

DRAWN BY:	DATE:
SHA	20/04/11
CHECKED BY:	DATE:
SID	20/04/11
APPROVED BY:	DATE:
	04/05/11

DRAWING TITLE: Inductor DWG NO. **ELECTRONIC FILE** SIZE M10002638 MCAP106020040A-900MU SCALE: NTS U.O.M.: mm SHEET: 1 OF 3



PART NO.

MCAP106020040A-900MU

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

Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔΤ
Condition	10 KHz / 5 mA	T _a = 25°C	10 KHz / 5 mA I _{rms} = 3 A
Specification	90 ±20%	40 (Max.)	Temperature rise 40°C (Max.)
1	90.25	38.75	
2	92.24	38.62	
3	94.25	38.85	ОК
4	92.3	39.01	
5	90.95	38.75	
Average	92	38.8	ОК

Reliability Test

Test Item	Specificati	ions	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 to contemperature and humidity in the storage area.			
Moisture sensitivity DCR change :		: No abnormality No damage : Within ±5% : Within ±5%	According to J-STD-020B level 3 Test condition : 60°C 60% RH Test duration : 40 hrs Recovery : 1 to 2 hours of recovery under the standard cor after the removal from the test chamber.			
Solderability	All termination shall ex solder coating free fro minimum of 95% of th any individual lead.	m defects for a	Steam aging duration Solder	: 97°C 98% RH		

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the 'Group') or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. 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 use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from megligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell ptc 2011.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

TOLERANCES:

DRAWN BY:	DATE:
SHA	20/04/11
CHECKED BY:	DATE:
SID	20/04/11
APPROVED BY:	DATE:
	04/05/11

DRAWI	NG TITLE:						
		Inducto	or				
SIZE A	DWG NO.	M10002638	ELECTRONIC FILE RE MCAP106020040A-900MU A				
SCAL	E: NTS	U.O.M.: mm		SHEET:	2 0	= 3	



PART NO.

MCAP106020040A-900MU

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

Material List

No	Item	Material Description			
1	Core	T60-75-TAF200 (Red / White)			
2	Wire	Ø0.8 mm UEFN/U (155°C)			
3	Solder (Lead-free)	Sn99.3% / Cu0.7%			

Part Number Table

Description	Part Number	
Inductor, 90µH, 20%, 2 Pins	MCAP106020040A-900MU	

http://www.element14.com

http://www.farnell.com

http://www.newark.com

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the 'Group') or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information subject to change without notice and replaces all data sheets previously supplied. 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 use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell pic 2011.

TOLERANCES:

UNLESS OTHERWISE
SPECIFIED,
DIMENSIONS ARE
FOR REFERENCE
PURPOSES ONLY.

DRAWN BY:	DATE:
SHA	20/04/11
CHECKED BY:	DATE:
SID	20/04/11
APPROVED BY:	DATE:
	04/05/11

	DRAWI	NG TITLE:					
	Inductor						
	SIZE A	DWG NO.	M10002638	l -	TRONIC FI 106020040A		REV A
SCALE: NTS		E: NTS	U.O.M.: mm		SHEET:	3 C	F 3