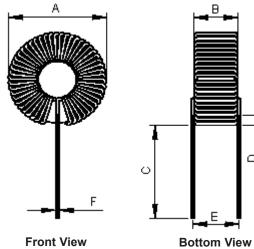
	PART NO.			REVISIONS							
multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
mancomp	MCAP115018062A-381MU	-	Α	RELEASED	VEE	20/4/11	SHA	20/4/11		04/5/11	

Configurations and Dimensions

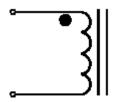


Α	44 mm	(Max.)
В	15.5 mm	(IVIAA.)
С	12 ±1 mm	-
D	1 mm	(Min.)
E	13.5 ±1.5	-
F	Ø1 mm	(Ref.)

Schematic Diagram

RoHS

Compliant



Note:

1. Wire UEFN/U 1mm (155°C) 2. 63TS (Reference) C.W

Test Data for Mechanical

		Test	Α	В	С	D	E	F
		Item	mm	mm	mm	mm	mm	mm
		Specification	44	15.5	12 ±1	1	13.5 ±1.5	Ø1
			(Max.)	(Max.)		(Min.)		(Ref.)
		1	41.76	14.01	12.25	2.73	13.52	1.01
		2	41.96	14.17	12.15	2.92	13.3	1
1	380 uH +20%	3	41.84	13.88	12.3	2.86	13.58	1.01
L	380 µ11 ±20 %	1	11 93	15 15	12.19	3.01	12/19	1
DCR	70 mΩ (Max.)	7	41.05	15.15	12.10	5.01	13.40	1
ΔΤ	. ,	5	41.96	14.42	12.08	3.12	13.52	1
10 KHz / 5 mA Irms = 10.5 A (Max.) ΔT Temperature rise 40°C (Max.)Operating temperature : -55°C to +130°C		Average	41.87	14.33	12.19	2.93	13.48	1
	ΔΤ	ΔT Temperature rise 40°C (Max.)	Item Specification 1 2 ΔT 380 μH ±20% 4 5 Average	Item mm Specification 44 (Max.) 1 41.76 1 41.96 2 41.96 3 41.84 DCR 70 mΩ (Max.) ΔT Temperature rise 40°C (Max.) Average 41.87	Item mm mm Specification 44 15.5 (Max.) (Max.) (Max.) 1 41.76 14.01 2 41.96 14.17 3 41.84 13.88 44 41.83 15.15 DCR 70 mΩ (Max.) 4 41.83 15.15 ΔT Temperature rise 40°C (Max.) 5 41.96 14.42	Item mm mm mm Specification 44 (Max.) 15.5 (Max.) 12±1 1 41.76 14.01 12.25 1 41.76 14.01 12.25 2 41.96 14.17 12.15 3 41.84 13.88 12.3 DCR 70 mΩ (Max.) 4 41.83 15.15 12.18 ΔT Temperature rise 40°C (Max.) 5 41.96 14.42 12.08	Item mm mm mm mm mm mm mm Specification 44 (Max.) 15.5 (Max.) 12 ±1 1 (Min.) 1 41.76 14.01 12.25 2.73 1 41.96 14.17 12.15 2.92 2 41.96 14.17 12.15 2.92 3 41.84 13.88 12.3 2.86 DCR 70 mΩ (Max.) 4 41.83 15.15 12.18 3.01 ΔT Temperature rise 40°C (Max.) 5 41.96 14.42 12.08 3.12 Average 41.87 14.33 12.19 2.93	$\frac{1}{\Delta T} + \frac{1}{Temperature rise 40^{\circ}C (Max.)} = \frac{1}{Mm} + \frac$

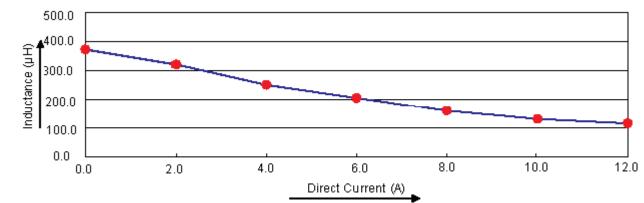
be	portant Notice : This data sheet and its contents (the "Information") belong to the mem- ers of the Premier Farnell group of companies (the "Group") or are licensed to it. No	TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:			
th	ence is granted for the use of it other than for information purposes in connection with e products to which it relates. No licence of any intellectual property rights is granted. The formation is subject to change without notice and replaces all data sheets previously sup-	UNLESS OTHERWISE	VEE	20/04/11		Inducto	r	
re	ied. The Information supplied is believed to be accurate but the Group assumes no sponsibility 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
th	se made of it. Users of this data sheet should check for themselves the Information and e suitability of the products for their purpose and not make any assumptions based on formation included or omitted. Liability for loss or damage resulting from any reliance on	DIMENSIONS ARE FOR REFERENCE	SHA	20/04/11	Δ	M10002597	MCAP115018062A-381MU	Α
th	e Information or use of it (including liability resulting from angle resulting from any enable of or a aware of the possibility of such loss or damage arising) is excluded. This will not oper-	PURPOSES ONLY.	APPROVED BY:	DATE:				
	e to limit or restrict the Group's liability for death or personal injury resulting from its negli- nce. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2011.			04/05/11	SCALE: NTS	U.O.M.: mm	SHEET: 1 OF	F 4

	PART NO.		REVISIONS							
multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
mancomp	MCAP115018062A-381MU	-	А	RELEASED	VEE	20/4/11	SHA	20/4/11		04/5/11

Test Data for Electrical

Test Item	L µH	DCR mΩ	ΔΤ
Condition	10 KHz / 5 mA	at 25°C	10 KHz / 5 mA I _{rms} = 10.5 A (Max.)
Specification	380 ±20%	70 (Max.)	Temperature rise 40°C (Max.)
1	352.89	61.22	
2	350.77	60.02	
3	349.64	60.09	ОК
4	359.38	60.3	
5	354.16	61.04	
Average	353.37	60.53	ОК

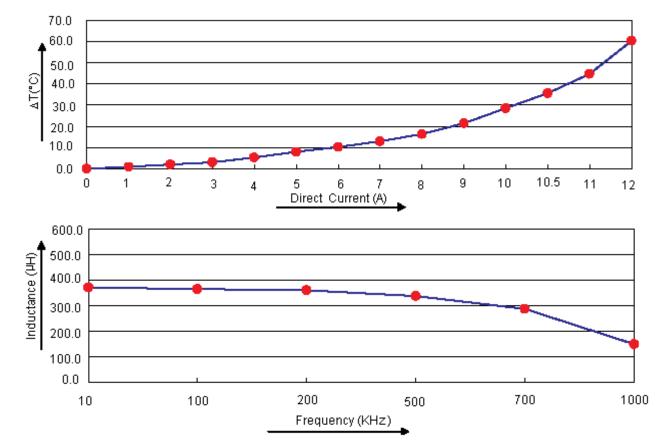
Electric Characteristics



	TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:			
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 sup-	UNLESS OTHERWISE	VEE	20/04/11		Inducto	r	
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
the suitability of the products for their purpose and not make any assumptions based on	DIMENSIONS ARE	SHA	20/04/11	Α	M10002597	MCAP115018062A-381MU	Α
the information or use of it (including lightlift) regulting from peoligenee or where the Crown	PURPOSES ONLY.	APPROVED BY:	DATE:				
ate to limit or restrict the Group's liability for death or personal injury resulting from its negli- gence. Multicomp is the registered trademark of the Group. © Premier Farnell pic 2011.			04/05/11	SCALE: NTS	U.O.M.: mm	SHEET: 2 OF	F 4

	PART NO.			REVISIONS						
multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
mancomp	MCAP115018062A-381MU	-	А	RELEASED	VEE	20/4/11	SHA	20/4/11		04/5/11

Electric Characteristics



Important Notice : This data sheet and its contents (the "Information") belong to the mem- bers of the Premier Farnell group of companies (the "Group") or are licensed to it. No	TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:			
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 sup-	UNLESS OTHERWISE	VEE	20/04/11		Inducto	r	
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
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	DIMENSIONS ARE	SHA	20/04/11	Δ	M10002597	MCAP115018062A-381MU	Α
the Information included of offitted. Liability for loss of damage resulting from any here the Coup 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 ansigna) is excluded. This will not oper-	PURPOSES ONLY.	APPROVED BY:	DATE:				
ate to limit or restrict the Group's liability for death or personal injury resulting from its negli- gence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2011.			04/05/11	SCALE: NTS	U.O.M.: mm	SHEET: 3 OF	- 4



MCAP115018062A-381MU

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

Reliability Test

Test Item	Specific	cations	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		ability of terminal electrodes, care must be taken to not humidity in the storage area.			
Moisture sensitivity	DCR change	: No abnormality No damage : Within ±5% : Within ±5%	According to J-STD-02 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		nibit a continuous solder ts for a minimum of 95% any individual lead.	According to J-STD-00 Steam aging category Steam aging duration Solder Solder temperature Dip time	: 97°C 98% RH			

Material List

No.	ltem	Material Description
1	Core	T150-75-TAF200 (Red / White)
2	Wire	UEFN/U 1mm (155°C)
3	Solder	Sn99.3% / Cu0.7%

Part Number Table

Description Part Number
Inductor, 380µH, 20%, 2 Pins MCAP115018062A-381MU

Important Notice : This data sheet and its contents (the "Information") belong to the mem- bers of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it ofter 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 sup- plied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or or mission from it of for any use made of it. Users of this data sheet should check for themselves the Information and 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's liability of east or personal injury resonal in presonal in presonal in pre- gence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2011.	TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:			
	UNLESS OTHERWISE	VEE	20/04/11	Inductor			
	SPECIFIED,	CHECKED BY:	DATE: SIZE DWG NO.		ELE	ELECTRONIC FILE	REV
		SHA	20/04/11	Δ	M10002597	MCAP115018062A-381MU	A
	APPROVED BY:	DATE:		L			
		04/05/11	SCALE: NTS	U.O.M.: mm	SHEET: 4 OF	F 4	

http://www.element14.com

http://www.farnell.com

http://www.newark.com