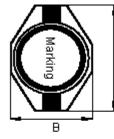
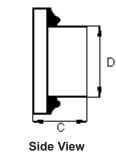
	PART NO.			REVISIONS						
multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCBFS5220-151KU	-	А	RELEASED	ASH	20/4/11	SID	20/4/11		04/5/11

Configurations and Dimensions





А	12.95 mm	
В	9.5 mm	(Max.)
С	5.2 mm	
D	8.4 ±0.3 mm	-
E	7.62 mm	
F	2.54 mm	(Ref.)
G	2.04 11111	
	B C D E F	B 9.5 mm C 5.2 mm D 8.4 ±0.3 mm E 7.62 mm F 2.54 mm

Schematic Diagram





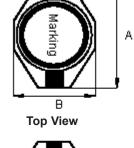


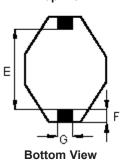
1. Wire Ø0.13mm × 1P 2UEWF 155°C 2. 77.5TS (Reference)

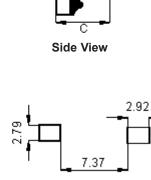
Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm	G mm
Specification	12.95 (Max.)	9.5 (Max.)	5.2 (Max.)	8.4 ±0.3	7.62 (Ref.)	2.54 (Ref.)	2.54 (Ref.)
1	12.79	9.23	4.78	8.48	7.62	2.52	2.53
2	12.74	9.22	4.79	0.40	7.61	2.51	2.52
3	12.78	9.2	4.8	8.5	7.62	2.51	2.53
4	12.79	9.19	4.82	8.51	7.6	2.5	2.51
5	12.74	9.2	4.78	8.49	7.59	2.52	2.52
Average	12.77	9.21	4.79	8.49	7.61	2.51	2.52

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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
the suitability of the products for their purpose and not make any assumptions based on	DIMENSIONS ARE FOR REFERENCE	SID	20/04/11	Δ	M1000342	MCBFS5220-151KU	Α
the Information or use of it (including lightlift) regulting from peoligenee or where the Croup	PURPOSES ONLY.	APPROVED BY:	DATE:				
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Suggest PCB Layout

Dimensions : Millimetres

Marking: 151

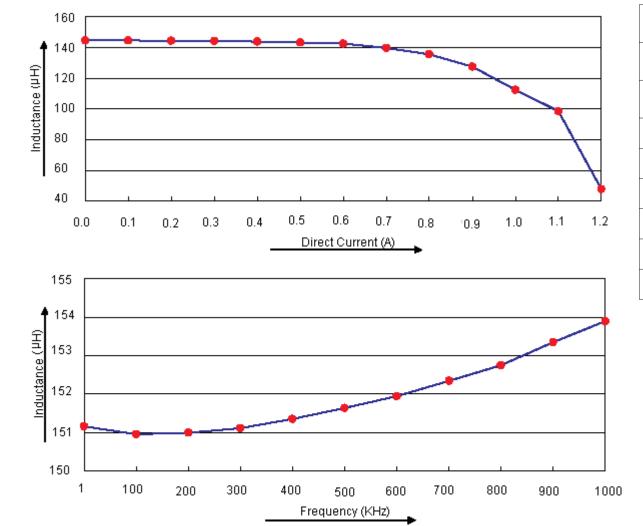
Electrical Characteristics (at 25°C)

Test Condition									
100 KHz 0.1 V	L	150 µH ±10%							
at 25°C	DCR	1.56 Ω (Max.)							
100 KHz 0.1 V I _{rms} = 0.72 A	L at I _{rms}	Δ T 40°C (Max.)							
Operating temperature : -55°C to +130°C									

Note : I_{rms} : Temperature rise 40°C

	PABT NO.			REVISIONS						
multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCBFS5220-151KU	-	А	RELEASED	ASH	20/4/11	SID	20/4/11		04/5/11

Electric Characteristics



Test Data for Electrical

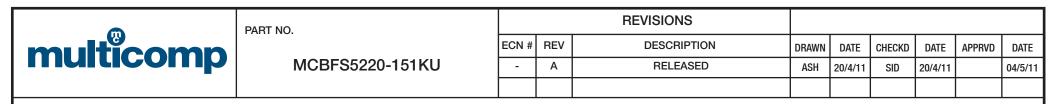
Test Item			L at I _{rms} μΗ			
Condition			100 KHz 0.1 V I _{rms} = 0.72 A			
Specification	150 ±10%	1.56 (Max.)	∆T 40°C (Max.)			
1	142.34	1.22				
2	146.92	1.2				
3	145.25	1.23	ОК			
4	147.35	1.25				
5	148.36	1.22				
Average	146.04	1.22	ОК			

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multicomp	PART NO.			REVISIONS						
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCBFS5220-151KU	-	А	RELEASED	ASH	20/4/11	SID	20/4/11		04/5/11

Reliability Test

Test Item		Specifications				Test Method a	ind Remarks					
Solderability	The electrodes with new solder	shall be at least 90% cove coating.	ered	According to I Soldering tem Solder Flux Immersion tim	perature		7%					
Soldering heat resistance	Appearance Inductance char	: No damage nge : Within ±10% of	: No damage : Within ±10% of initial value			150°C : 1 min : 260 ±5°C : 10 ±1 s nperature after placi	ng for 24 hours.					
Vibration (Out LAB)	Appearance All electrical and	: No damage d mechanical parameters	within tolerance.	Frequency Amplitude		202 Method 204 : 10 to 55 Hz : 1.52 mm ' and Z direction for	02 Method 204 : 10 to 55 Hz					
Humidity resistance test	Appearance All electrical and	: No damage d mechanical parameters	According to I Temperature Humidity Test time The compone		: 40 ±2°C : 90%-95% RH : 500 ±2 hrs	H t normal condition for 24 hours before test.						
High temperature resistance test	Appearance All electrical and	: No damage d mechanical parameters	within tolerance.	According to I Temperature Test time	EC68-2-	2 : 85 ±3°C : 500 +24 hrs	rmal condition for 24 ho					
Low temperature resistance test	Appearance All electrical and	: No damage d mechanical parameters	within tolerance.	Temperature Test time		1 Method A (Ad) : -40 ±3°C : 500 +24 hrs d be stabilized at no	rmal condition for 24 ho	ours befor	e test.			
Temperature cycles test	Appearance All electrical and	: No damage d mechanical parameters	within tolerance.	According to I High-temperat Room-temperat Low-temperat Room-temperat Number of cyc	EC68-2- ture ature ure ature cle	14 Method N (Nb) : 85 ±3°C duratio : 25 ±2°C duratio : -40 ±3°C duratio : 25 ±2°C duratio : 10 cycles	n 30 mins n 3 hrs on 30 mins					
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Material List

No.	ltem	Material Description
1	Core	R5A DR4.8 × 4 R5A RI 8.4 × 4.1 × 6.85
2	Wire	Ø0.13 mm × 1P 2UEWF (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%
4	Glue	TH320D / TH320-3
5	Base	SN-BS019.01 LCP

Part Number Table

Description	Part Number
Inductor, 150µH, 10%, SMD	MCBFS5220-151KU

http://www.element14.com

http://www.farnell.com

http://www.newark.com

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			04/05/11	SCALE: NTS	U.O.M.: mm		SHEET: 4 OI	F 4