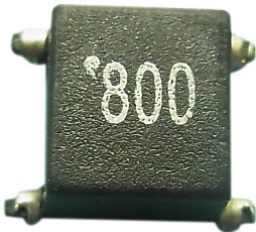


Common Mode Choke

RoHS
Compliant

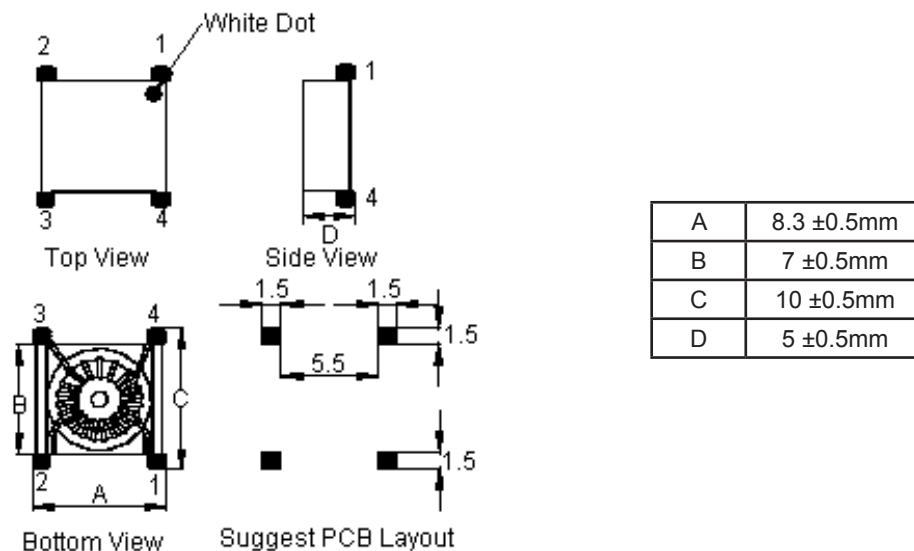
Electrical Characteristics (at 25°C)



1kHz 0.25V	L_{1-4}	80 μ H +50% -35%
	L_{2-3}	
at 25°C	L_{1-4} - L_{2-3}	3 μ H (Max.)
	DCR ₁₋₄	60m Ω (Max.)
	DCR ₂₋₃	
100MHz	Z	1.34K Ω (Typical)
Coil-Coil DC 1,000 2mA	Hi-pot	3S (Min.)

Operating temperature: -20°C to +85°C

Configurations and Dimensions



Dimensions : Millimetres

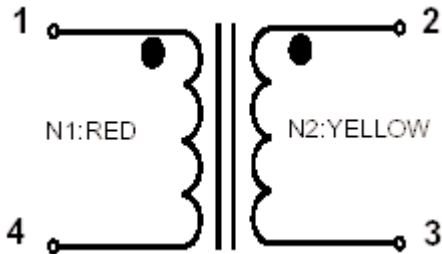
Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm
Specification	8.3 \pm 0.5	7 \pm 0.5	10 \pm 0.5	5 \pm 0.5
1	8.24	7.03	10.03	4.99
2	8.2	7	10.02	5.02
3	8.25	7.04	10.03	5.03
4	8.23	7.01	10.04	5.04
5	8.2	7	10.01	5.05
Average	8.22	7.02	10.03	5.03

Common Mode Choke



Schematic Diagram



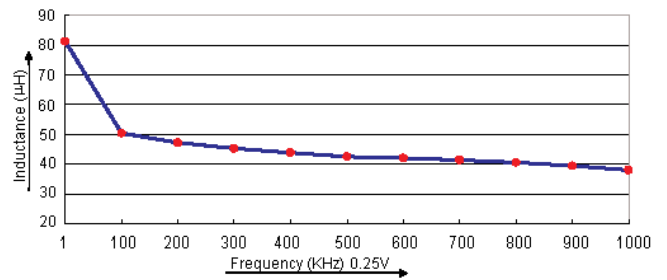
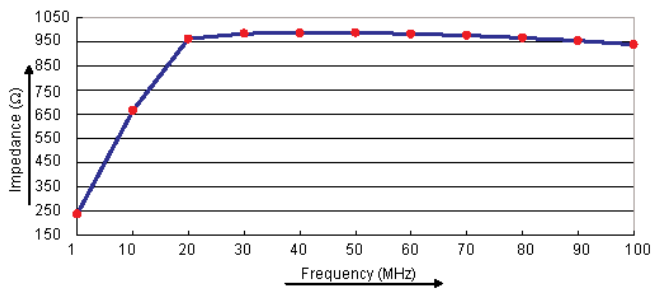
Note:

- 1-4.Wire Ø0.25mm × 1P 2UEWF 155°C × 12TS (Reference)
- 2-3.Wire Ø0.25mm × 1P 2UEWF 155°C × 12TS (Reference)

Test Data for Electrical

Test Item	L_{1-4} μH	L_{2-3} μH	$L_{1-4-2-3}$ μH	DCR ₁₋₄ m Ω	DCR ₂₋₃ m Ω	Z Ω	Hi-pot S
Condition	1KHz 0.25V	1KHz 0.25V	1KHz 0.25V	at 25°C	at 25°C	100MHz	Coil-Coil DC 1,000 2mA
Specification	80 +50% -35%	80 +50% -35%	3 (Max.)	60 (Max.)	60 (Max.)	1.34 (Typical)	3 (Min.)
1	88.7	88.6	0.1	47.51	46.47	1.036	OK
2	86.4	86.3		46.89	46.48	1.084	OK
3	86.7	86.6		47.35	46.96	0.862	OK
4	87.7	87.7	0	46.73	46.92	0.863	OK
5	92.4	92.3	0.1	47.1	46.78	0.812	OK
Average	88.38	88.3	0.08	47.12	46.72	0.93	OK

Electric Characteristics



Common Mode Choke



Reliability Test

Test Item	Specifications	Test Method and Remarks
Operating temperature range	-20°C to +85°C	Including temperature rise due to self-generated heat
Storage condition	Ambient temperature : 0°C to 40°C Humidity : Below 70%RH	To maintain the solderability of terminal electrodes, care must be taken to control temperature and humidity in the storage area.
Moisture sensitivity	Appearance : No abnormality No damage DCR change : Within ±20% Inductance change : Within ±20%	According to J-STD-020B level 3 Test condition : 60°C 60% RH Test duration : 40 hours Recovery : 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 90% of the surface area of any individual lead.	According to J-STD-002B Steam aging category : 97°C 98% RH Steam aging duration : 8 hours Solder : Lead-free solder Solder temperature : 260 ±5°C Dip time : 5 +0/-0.5 seconds.

Material List

No.	Item	Material Description
1	Core	S2K T4.3 × 2.5 × 2.8
2	Wire	Ø0.3mm × 2P 2UEWF 155°C
3	Solder (Lead Free)	Sn99.3%Cu0.7%
4	Base	BG406-1 LCP4008

Part Number Table

Description	Part Number
Choke, common mode, 80µH, 60mΩ	MCBS3019P-800U

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 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 negligence. Multicomp is the registered trademark of the Group. © Premier Farnell plc 2012.