



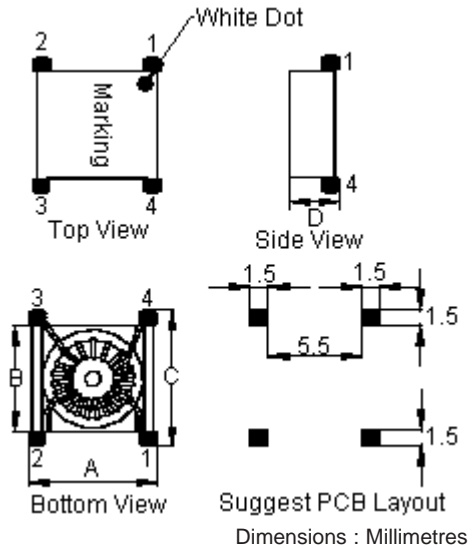
PART NO.

MCBS3019P-800U

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Configurations and Dimensions



A	8.3 ±0.5 mm
B	7 ±0.5 mm
C	10 ±0.5 mm
D	5 ±0.5 mm

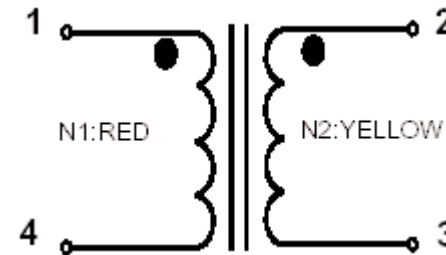
Marking: 800

Electrical Characteristics (at 25°C)

Test Condition		
1KHz 0.25V	L ₁₋₄	80μH +50% -35%
	L ₂₋₃	
	L ₁₋₄ -L ₂₋₃	
at 25°C	DCR ₁₋₄	60mΩ (Maximum)
	DCR ₂₋₃	
100MHz	Z	1.34KΩ (Typical)
Coil-Coil DC 1000 2mA	Hi-pot	3S (Minimum)

Operating temperature: -20°C to +85°C

Schematic Diagram



Note:

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

Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm
Specification	8.3 ±0.5	7 ±0.5	10 ±0.5	5 ±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

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DRAWN BY:

Shashi

DATE:

07/02/11

DRAWING TITLE:

Common Mode Choke

CHECKED BY:

Jagan

DATE:

07/02/11

APPROVED BY:

Farnell

DATE:

21/02/11

SIZE DWG NO.

A

M10002647

ELECTRONIC FILE
BS3019P-800U

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



PART NO.

MCBS3019P-800U

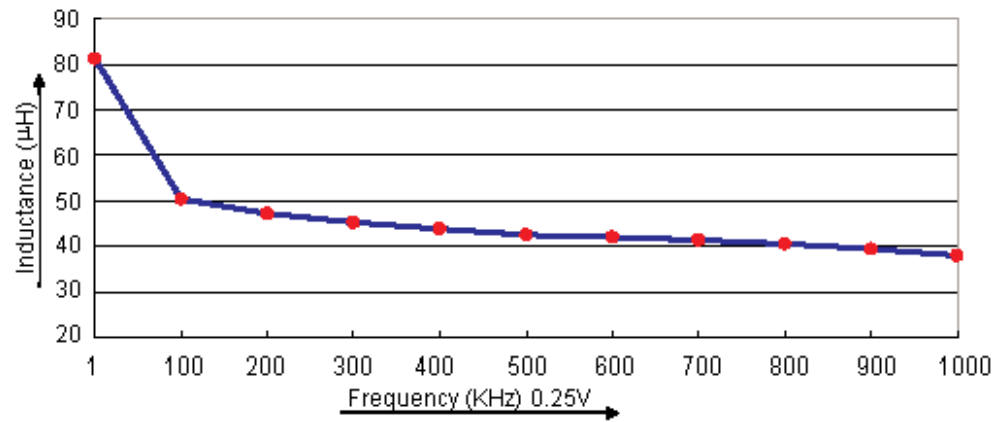
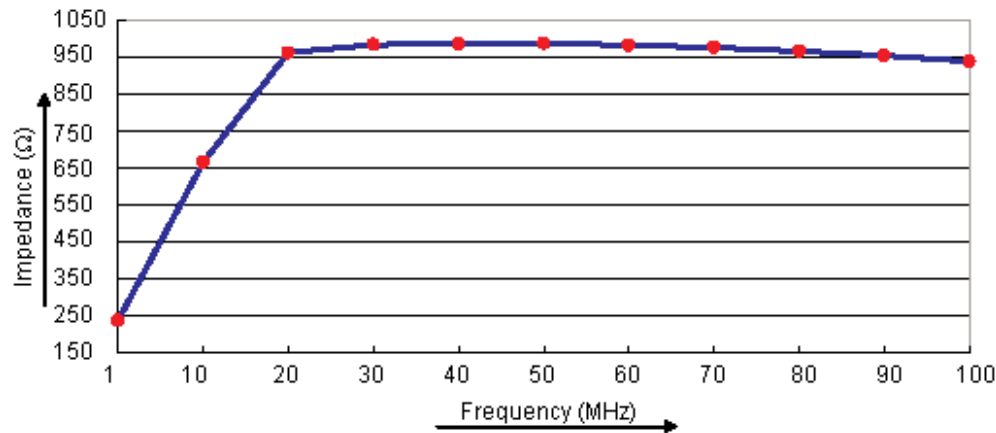
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Test Data for Electrical

Test Item	L ₁₋₄ μH	L ₂₋₃ μH	L ₁₋₄ -L ₂₋₃ μH	DCR ₁₋₄ mΩ	DCR ₂₋₃ mΩ	Z KΩ	Hi-pot S
Condition	1KHz 0.25V	1KHz 0.25V	1KHz 0.25V	at 25°C	at 25°C	100MHz	Coil-Coil DC 1000 2mA
Specification	80 +50% -35%	80 +50% -35%	3 (Maximum)	60 (Maximum)	60 (Maximum)	1.34 (Typical)	3 (minimum)
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



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Jagan	07/02/11
APPROVED BY:	DATE:
Farnell	21/02/11

DRAWING TITLE:			
Common Mode Choke			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002647	BS3019P-800U	A
SCALE: NTS		U.O.M.: mm	SHEET: 2 OF 3



PART NO.

MCBS3019P-800U

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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 x 2.5 x 2.8
2	Wire	Ø0.25mm x 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, 60MOhm	MCBS3019P-800U

<http://www.farnell.com>
<http://www.newark.com>
<http://www.cpc.co.uk>

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Common Mode Choke			
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SCALE: NTS	U.O.M.: mm	SHEET: 3 OF 3	