





Specifications:

Inductance	: 12µH
Inductance Tolerance	: ± 20%
DC Resistance Max	: 0.07Ω
DC Current Rating	: 2.45A
Self Resonant Frequency	: 20MHz
Inductor Case Style	: SMD
No. of Pins	: 2
Lead Spacing	: 2.8mm
Core Material	: Ferrite
External Depth	: 9.8mm
External Length / Height	: 5.8mm
External Width	: 9.8mm
Resonant Frequency	: 1kHz
Series	: MCSDC1006

Electrical Characteristics (at 25°C)

1kHz 1V	L	12µH ±20%
at 25°C	DCR	70mΩ (Max.)
1kHz 1V Irms = 2.45A	ΔT	Temperature Rise 40°C (Max.)

Operating temperature: -55°C to +130°C

Material List

No.	ltem	Material Description
1	Core	K22 DRM 9.5 × 5.5 RB-R B=4.5 F=3
2	Wire	Ø0.3mm × 2P 2UEF1/U 155°C
3	Solder (Lead Free)	Sn99.3%/Cu0.7%

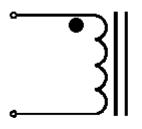
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Inductor



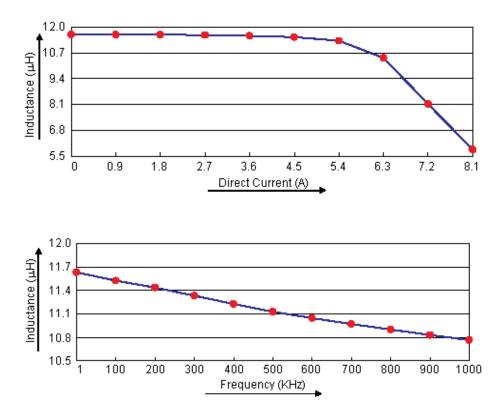
Schematic Diagram



Note:

1. Wire Ø0.3mm × 2P 2UEF1/U 155°C 2. 15.5TS (Reference)

Electric Characteristics

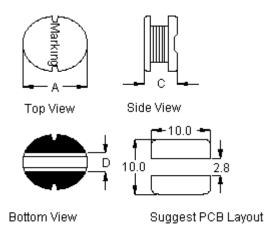


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Configurations and Dimensions



А	9.8 mm	(Maximum)
В	5.8 mm	(Maximum)
С	2.9mm	(Reference)

Dimensions : Millimetres

Part Number Table

Description	Part Number
Inductor, 12µH, 20%, SMD	MCSDC1006-120MU

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