Inductor
1.6mH

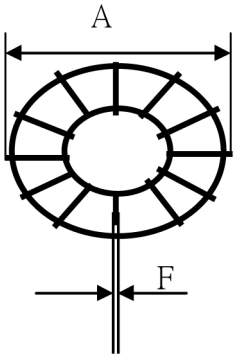
multicomp PRO

RoHS Compliant

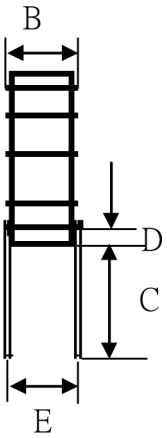
Specifications:

Core Material	: Iron Powder
DC Current Rating	: 500mA
DC Resistance Max	: 0.48Ω
Inductance	: 1.6mH
RMS Current (Irms)	: 1A

Configurations & Dimensions:



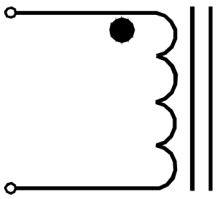
Front View



Side View

A	30mm	(Max)
B	14.5mm	
C	12 ±1mm	-
D	1mm	(Min)
E	12.5 ±1mm	-
F	Ø0.5mm	(Ref)

Schematic Diagram:



Note:
(1). Wire UEFN/U (155°C) Ø0.5mm
(2). 133TS(Ref) C.W

Electrical Characteristics:

Test Condition		
10KHz / 5mA	L0	$1{,}619^{+15\%}_{-8\%}$µH
Ta = 25°C	DCR	480mΩ (Max.)
10KHz / 5mA Irms = 1A	ΔT	Temperature rise 40°C (Max.)

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

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Test Data for Mechanical:

Test Item	A mm	B mm	C mm	D mm	E mm	F mm
Specification	**30 (Max.)**	**14.5 (Max.)**	**12 ±1**	**1 (Min.)**	**12.5 ±1**	**Ø0.5 (Ref.)**
1	28.82	13.46	12	4.2	13	0.48
2	28.76	13.14	12.2	3.62	12.78	0.49
3	29	13.12	12.3	3.34	12.9	0.47
4	28.86	13.22	12.4	4.2	13	0.48
5	28.94	13.3	12.3	3.1	12.7	
Average	**28.88**	**13.25**	**12.24**	**3.69**	**12.88**	**0.48**

Test Data for Electrical:

Test Item	L0 uH	DCR mΩ	ΔT
Condition	**10KHz/5mA**	**Ta=25°C**	**10KHz/5mA Irms=1A**
Specification	**1,619 $^{+15\%}_{-8\%}$μH**	**480 (Max)**	**Temperature rise 40°C (Max.)**
1	1712	452	OK
2	1673	463	
3	1687	453	
4	1724	468	
5	1655	446	
Average	**1690.2**	**456.4**	**OK**

Material List:

No.	Item	Material Description
1	Core	T106-75-TAF200 (Red / White)
2	Wire	Ø0.5mm UEFN/U (155°C)
3	Solder (Lead-free)	Sn99.3% / Cu0.7%

Reliability Test:

Test Item	Specifications	Test Method and Remarks
Operating temperature range	-55°C to +130°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 ±5% Inductance change : Within ±5%	According to J-STD-020B level 3 Test condition : 60°C 60% RH Test duration : 40 hrs 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 95% of the surface area of any individual lead.	According to J-STD-002B Steam aging category : 97°C 98% RH Steam aging duration : 8 hrs Solder : Lead-free solder Solder temperature : 260 ±5°C Dip time : 5 +0 / -0.5s

Part Number Table

Description	Part Number
Inductor, 1.6mH, AP, 2 Pins	MCAP110624132A-162U