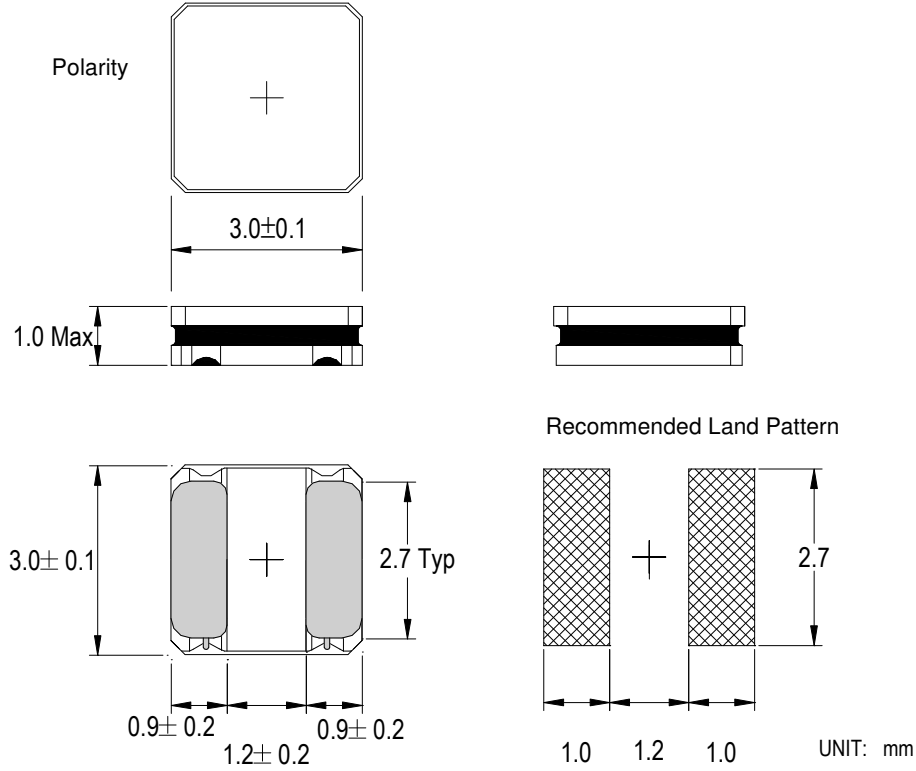


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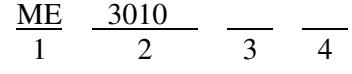
Configuration & Dimension:



Construction & Material:

- 1、Core : Ferrite core
- 2、Wire : H Class Enameled copper wire
- 3、Terminal : Ni / Cu / Ag alloy with Sn
- 4、Coating : Magnetic epoxy resin
- 5、Products comply with RoHS' requirements

Product Identification:



- 1、Type
- 2、Dimension
- 3、Inductance:
- 4、Tolerance: (M20% , N30%)

				ME3010-type	
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PART NUMBER	INDUCTANCE (μ H)	RDC (Ω)		Isat (A)		Irms (A)		SRF (MHz) MIN	TOLERANCE
		Typ.	Max	Typ.	Max	Typ.	Max		
ME 3010 1R0N	1.0	0.065	0.078	1.95	1.70	1.700	1.525	180	30 %
ME 3010 1R5N	1.5	0.080	0.096	1.60	1.40	1.650	1.470	140	
ME 3010 2R2M	2.2	0.095	0.114	1.45	1.25	1.450	1.270	100	20 %
ME 3010 3R3M	3.3	0.160	0.192	1.05	0.90	1.300	1.130	80	
ME 3010 4R7M	4.7	0.190	0.228	0.95	0.85	1.100	0.925	60	
ME 3010 6R8M	6.8	0.300	0.360	0.76	0.66	0.850	0.710	50	
ME 3010 100M	10	0.450	0.540	0.61	0.53	0.720	0.630	45	
ME 3010 150M	15	0.740	0.888	0.48	0.42	0.560	0.475	35	
ME 3010 220M	22	0.980	1.176	0.42	0.36	0.500	0.430	25	
ME 3010 330M	33	1.550	1.860	0.34	0.28	0.415	0.345	24	
ME 3010 470M	47	2.000	2.400	0.27	0.24	0.320	0.270	19	

1. Test Frequency : 1MHz
2. Test equipment :
L/Q : HP-4286A
SRF : HP-4291B , HP4287A
RDC: HP-4286A , CH16502
3. Isat : Based on Inductance decrease 30%
4. Irms : Based on Temperature increase 40°C
5. Operating temperature range: -40 to +105°C (Including self-temperature rise)
6. Storage Temp.: -40°C TO +85°C



TYPICAL ELECTRICAL CHARACTERISTICS

DOC.NO

ME3010-type

Product
Description

SMD Power Inductor

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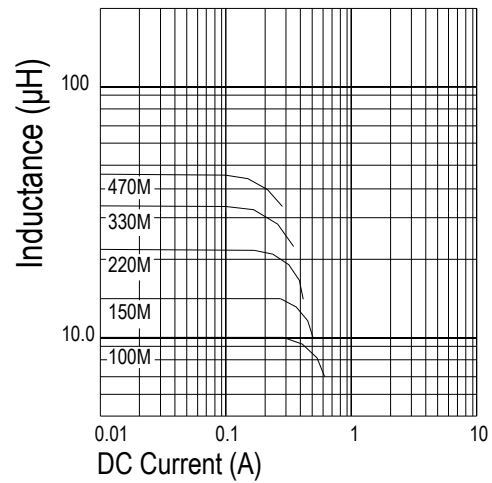
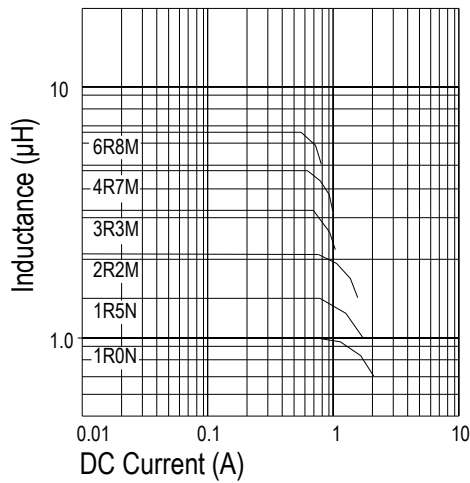
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Rev.

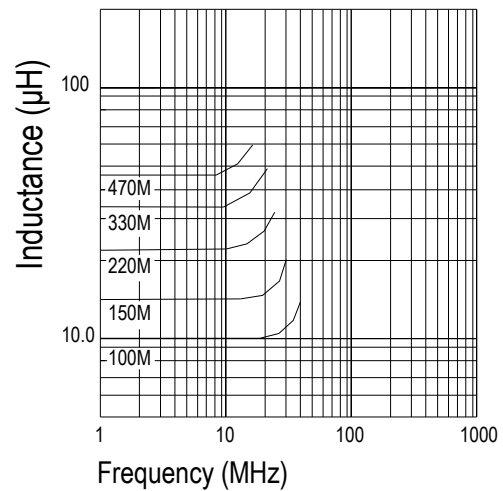
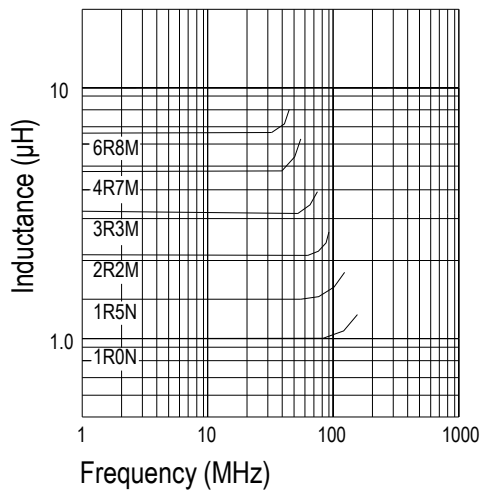
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TYPICAL ELECTRICAL CHARACTERISTICS

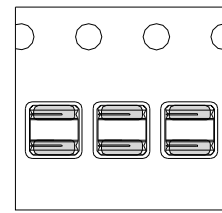
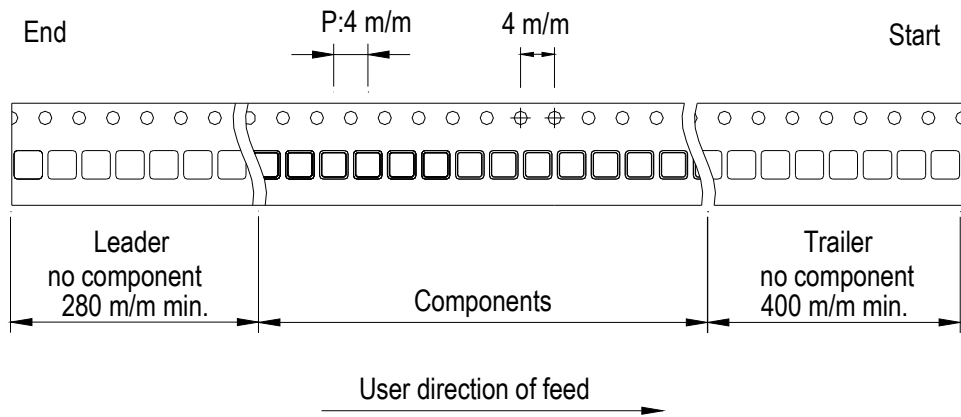
L vs Current



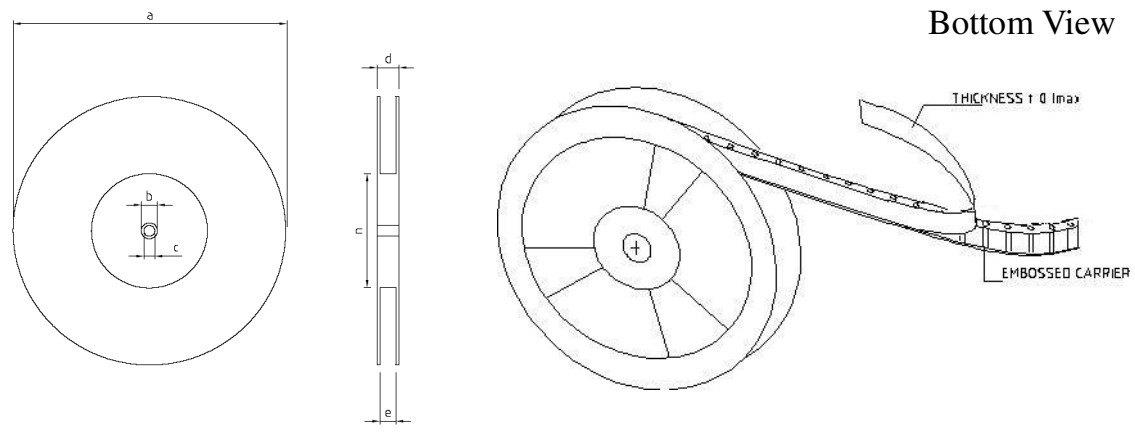
L vs Frequency



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Bottom View



Product Series	t	PI	P	P ₀	W	A ₀	B ₀	K ₀	a	b	c	d	e	n
ME3010	0.25 ±0.05	2.0 ±0.05	4.0 ±0.1	4.0 ±0.1	8.0 ±0.2	3.15 ±0.1	3.15 ±0.1	1.35 ±0.1	178.0 ±2.0	21.0 ±0.8	13.0 ±0.8	12.5 MAX	8.4 ±1.0	50 MIN

Reel		5Reel / Box		6Box / Carton	
Q'ty(Pcs)	Size m/m	Q'ty(Pcs)	Size m/m	Q'ty(Pcs)	Size m/m
2,000	180 ϕ	10,000	182×182×80	60,000	540×210×205



Reliability		DOC.NO	ME3010-type
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1. Reliability test :

NO	Test item	Specification	Test condition
1-1	Solderability	More than 90% of the Terminal electrode Shall be covered With fresh solder.	Preheat : 150±25°C for 60 seconds Solder : Sn96.5 / Ag3 / Cu0.5 or equivalent Solder Temp. : 235±5°C Flux : Rosin Dip time : 4±1 seconds
1-2	High temp. storage test	Electrical characteristics variation shall not change more 3%	Test conditions : +125°C±2°C For 48±2Hours
1-3	Low temp. storage test		Test conditions : -40°C±2°C For 48±2Hours
1-4	Temp. cycle test		Test conditions : +125°C±5°C (30min.) ~+25°C±5°C (2Hours) -40°C±5°C (30min.) Total test : 10 cycle
1-5	Humidity test		Temperature : +40°C±2°C Humidity : 90%±5% Time : 96 hours
1-6	Thermal shock test		Test conditions:+125°C±5°C (30min.)~-65°C±5°C (30min.) Temp change:2 min. Total : 50 cycles
1-7	Life test		Test conditions : +70°C±5°C Total test : 300 hours

2. Recommended Lead-Free IR Reflow Conditions :

