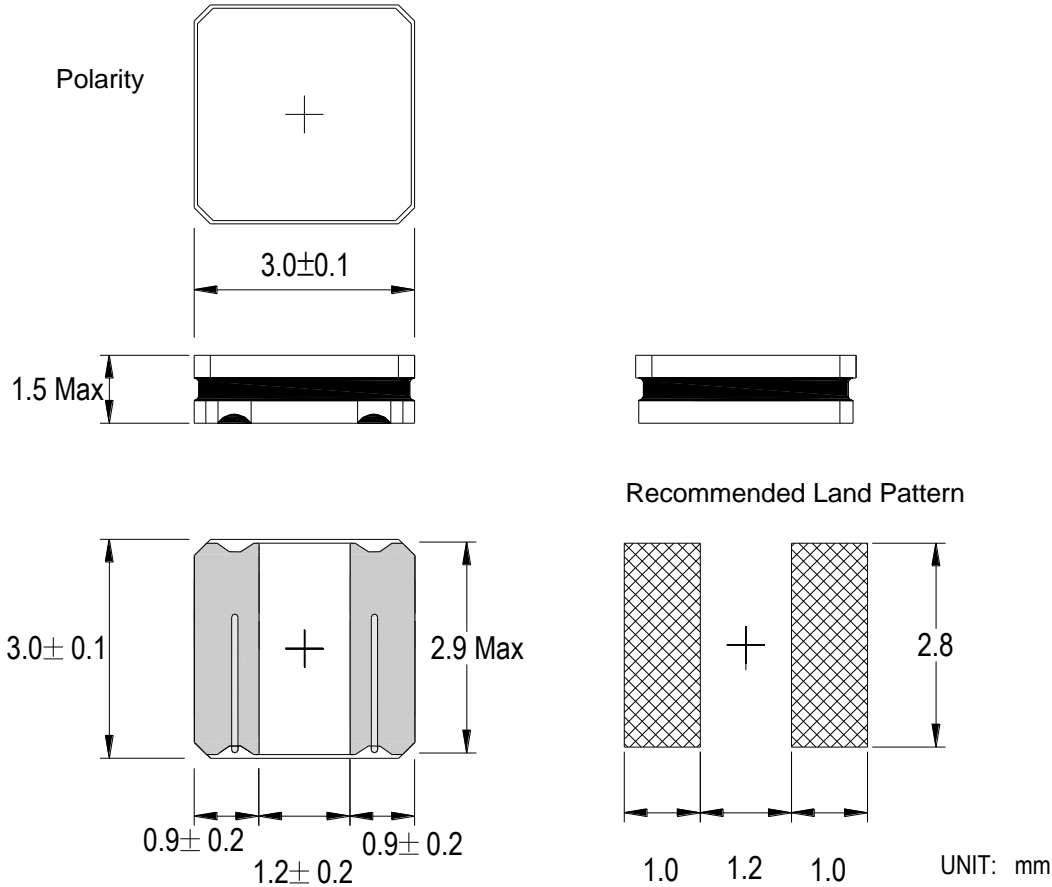


Product Specification		DOC.NO	ME3015-series
Product Description	SMD Power Inductor	Page	1
		Rev.	A0

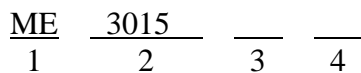
Configuration & Dimension:



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%)

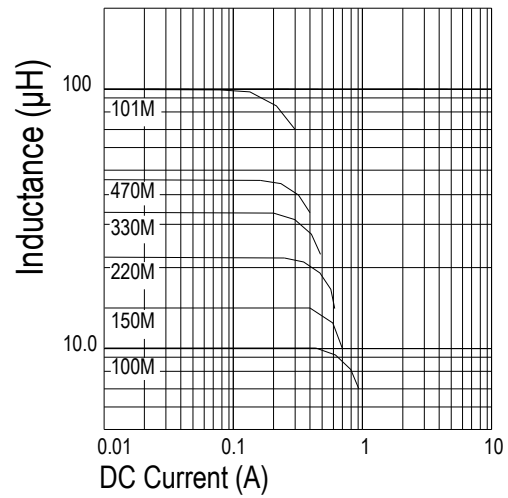
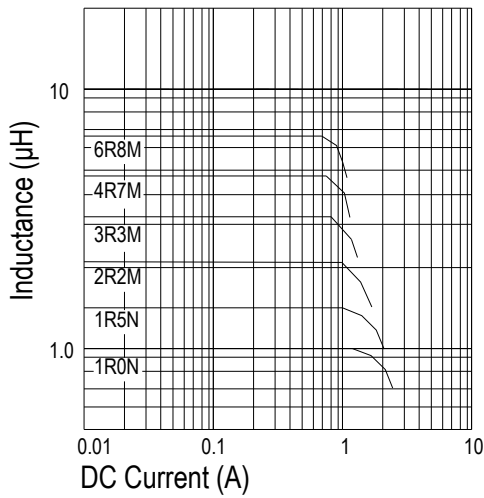
Specification / Electrical						DOC.NO	ME3015-type		
Product Description	SMD Power Inductor					Page	2		
						Rev.	A0		
PART NUMBER	INDUCTANCE (μ H)	RDC (Ω)		Isat (A)		Irms (A)		SRF (MHz) MIN	TOLERANCE
		Typ.	Max	Typ.	Max	Typ.	Max		
ME 3015 1R0□	1.0	0.040	0.048	2.35	2.10	2.35	2.10	145	N : 30 % M : 20 %
ME 3015 1R5□	1.5	0.055	0.066	2.00	1.80	2.10	1.90	130	
ME 3015 2R2□	2.2	0.060	0.072	1.65	1.48	1.80	1.60	90	
ME 3015 3R3□	3.3	0.093	0.112	1.40	1.21	1.60	1.45	75	
ME 3015 4R7□	4.7	0.113	0.136	1.20	1.08	1.40	1.25	65	
ME 3015 6R8□	6.8	0.176	0.211	1.05	0.90	1.10	0.90	50	
ME 3015 100□	10	0.234	0.276	0.88	0.75	1.00	0.87	45	
ME 3015 150□	15	0.352	0.422	0.68	0.58	0.80	0.65	33	
ME 3015 220□	22	0.510	0.622	0.58	0.47	0.60	0.55	28	
ME 3015 330□	33	0.799	0.959	0.46	0.39	0.50	0.45	22	
ME 3015 470□	47	1.172	1.406	0.38	0.32	0.40	0.40	18	
ME 3015 101□	100	2.433	2.920	0.27	0.23	0.29	0.25	11	

1. Test Frequency : 1MHz / 0.1V
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

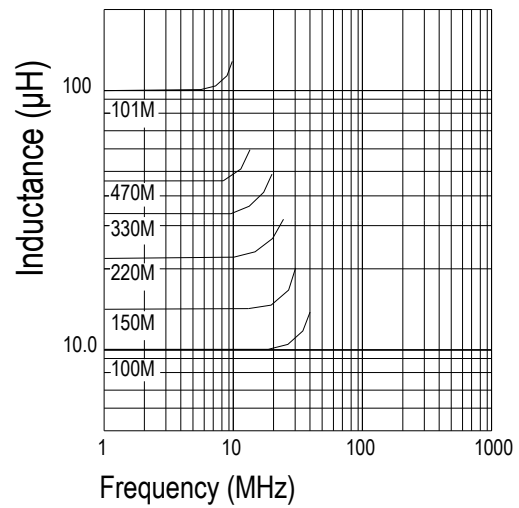
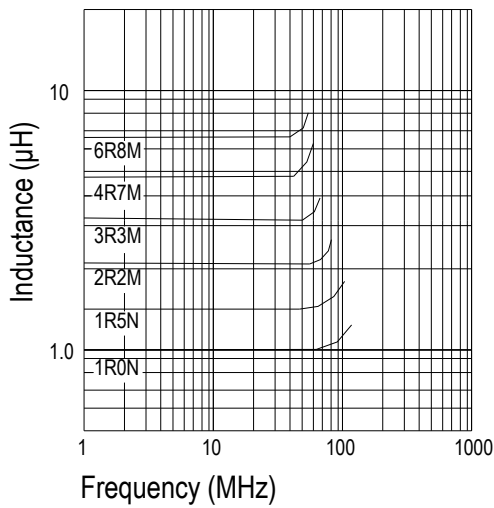


TYPICAL ELECTRICAL CHARACTERISTICS

L vs Current



L vs Frequency



Packaging

DOC.NO

ME3015-type

Product Description

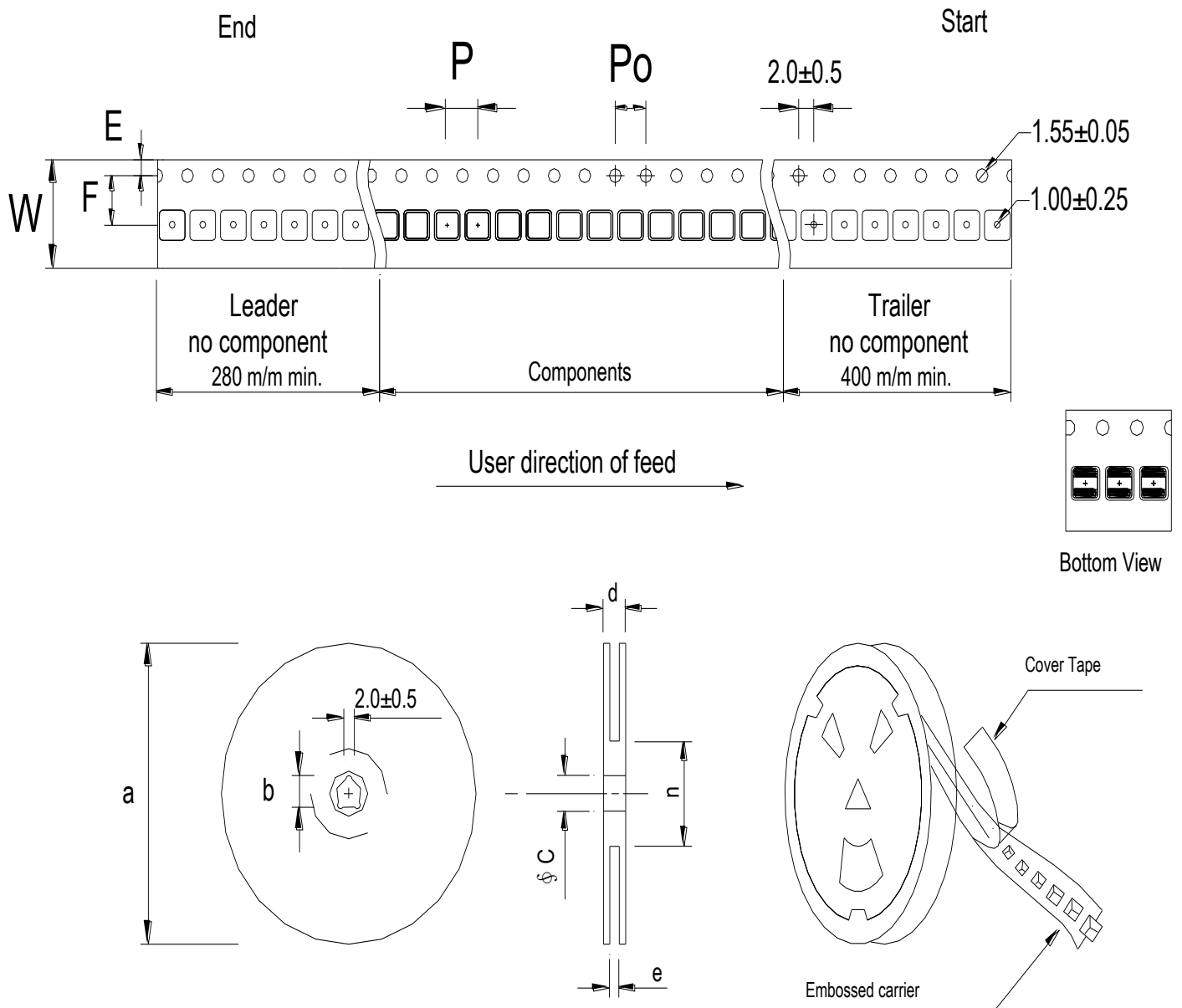
SMD Power Inductor

Page

4

Rev.

A0



STRENGTH OF COVER TAPE: (20g~60g)

Product Series	t	P	P ₀	W	F	E	A ₀	B ₀	K ₀	a	b	ψ c	d	e	n
ME3015	0.25 ±0.05	4.0 ±0.1	4.0 ±0.1	8.0 ±0.2	3.5 ±0.05	1.75 ±0.1	3.15 ±0.1	3.15 ±0.1	1.60 ±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	180ψ	10,000	182×182×80	60,000	540×210×205



CLIDER ENTERPRISE CO.,LTD

FM0402A

Reliability		DOC.NO	ME3015-type
Product Description	SMD Power Inductor	Page	5
		Rev.	A0

1. Reliability test :

NO	Test item	Specification	Test condition
1-1	Solderability test	The terminals tested should be covered up to 95% by new solder under 10x CCD microscope. Pinholes concentrated on a section are not acceptable	1.soldering temperature is 245±5°C 2.Dipping times are totally 5±0.5 seconds
1-2	High temp. storage test	Electrical characteristics variation shall not change more 10%	Test conditions : +125°C±2°C For 500 hours
1-3	Low temp. storage test		Test conditions : -40°C±2°C For 500 hours
1-4	Humidity test		Temperature : +60°C±2°C H midity : 90%±5% Time : 500 hours
1-5	Thermal shock test		Test conditions:+85°C±2°C (30min.)~-40°C±2°C (30min.) Temp change:2 min. Total : 100 cycles
1-6	Life test		Test conditions : +105°C±5°C Total test : 500 hours
1-7	Vibration test		No damage Appearance can not be broken
1-8	Soldering heat bear test	Reflow temperature up to above 260 °C X 3 Times	

2. Recommended Lead-Free IR Reflow Conditions :

