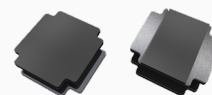


COIL SPECIFICATION



Brand ZenithTek
Product Series Code ZAD - Series
File Version V3.0
Description SMD Low Profile Magnetic Epoxy Inductor



CHANGE NOTE

Version	Date	Content	Draw	Check	Approve
V1.0	2010/10/08	Modify: All series operating temp. : -25°C~+85°C change to -40°C~+105°C.	Gary	Tonny	Niles
V1.1	2010/12/01	Publish: 8030 series in Taiwan.	Gary	Tonny	Niles
V1.2	2011/01/06	Modify: 3010 height, 1.2mm change to 1.0mm. 3012 height, 1.4mm change to 1.2mm. 3015 height, 1.7mm change to 1.5mm. 4012 height, 1.4mm change to 1.2mm. 4020 height, 2.2mm change to 2.0mm.	Gary	Tonny	Niles
V1.3	2011/01/07	Publish: 5020 series in Taiwan	Gary	Tonny	Niles
V1.4	2011/06/20	Publish: 6028 1.0μH item in Taiwan	Gary	Tonny	Niles
V1.5	2011/07/10	Modify: 3010 series Add 3R6N, 430, 510, 560. Delete 3R9, 180 Change characteristics of 330.	Gary	Tonny	Niles
V1.6	2011/10/21	Modify: 5020 series Change characteristics.	Gary	Tonny	Niles
V1.7	2011/11/21	Publish: 6020 series in Taiwan.	Gary	Tonny	Niles
V1.8	2012/05/22	Publish: 5020 33μH item in Taiwan.	Gary	Tonny	Niles
V1.9	2012/09/22	Publish: 4010, 4018, 5012, 5040, series in Taiwan.	Gary	Tonny	Niles
V2.0	2012/11/12	Modify: ..6020 height, 2.2mm change to 2.0mm and update electrical characteristics.	Gary	Tonny	Niles
V2.1	2013/11/07	Publish: 4030 1.0μH item in Taiwan.	Shiang	Tonny	Niles
V2.2	2014/08/28	Modify: 3015 series Add 120, 390, 680. Change characteristics of 1R0,5R1,620.	Penny	Shiang	Niles
V2.3	2014/11/26	Publish: 5012 5.6μH item in Taiwan.	Sherry	Shiang	Niles
V2.4	2017/01/11	Modify: 1.Reliability test. 2.Characteristics. 3.Add new parts.	Dale	Sam	Kerwin
V3.0	2017/06/01	Modify: Updated version.	Sam	Water	Kerwin

ZenithTek

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COIL SPECIFICATION



ZenithTek

Brand

ZenithTek

Product Series Code

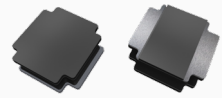
ZAD - Series

File Version

V3.0

Description

SMD Low Profile Magnetic Epoxy Inductor



Features

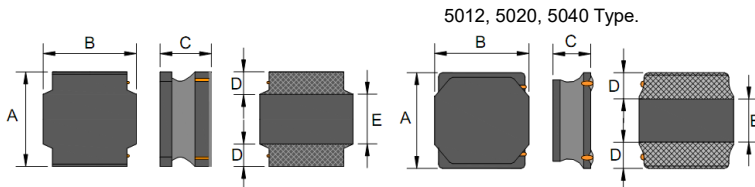
- High Rated Current.
- Low DC Resistance.
- A Series of Package Size and Wide Inductance Range.
- Halogen Free, Lead Free, RoHS and REACH Compliance.

Product Identification

ZAD - 3010 ME S - 100 M/N

1 2 3 4 5 6

Dimension (Unit: mm)



Type	A(±0.3)	B(±0.3)	C(Max.)	D(Ref.)	E(Ref.)
ZAD-3010	3.00	3.00	1.00	0.75	1.50
ZAD-3012	3.00	3.00	1.20	0.75	1.50
ZAD-3015	3.00	3.00	1.50	0.75	1.50
ZAD-4010	4.00	4.00	1.00	0.95	2.10
ZAD-4012	4.00	4.00	1.20	0.95	2.10
ZAD-4018	4.00	4.00	1.80	0.95	2.10
ZAD-4020	4.00	4.00	2.00	0.95	2.10
ZAD-4030	4.00	4.00	3.00	0.95	2.10
ZAD-5012	5.00	5.00	1.20	1.25	2.50
ZAD-5020	5.00	5.00	2.00	1.25	2.50
ZAD-5040	5.00	5.00	4.00	1.25	2.50
ZAD-6020	6.00	6.00	2.00	1.55	2.90
ZAD-6028	6.00	6.00	2.80	1.55	2.90
ZAD-6045	6.00	6.00	4.50	1.55	2.90
ZAD-8040	8.00	8.00	4.20	2.00	4.00

Applications

- DC to DC Converter.
- Computing, Mobile, Networking.
- IoT, Gaming, Audio Devices.
- Industrial PC, Storage Devices.

1.Product Code:
ZAD = ZenithTek Code.

4.Material Code:
S = Material.

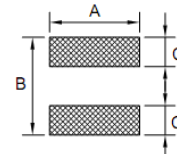
2.Dimension Code:
3010 = 3.0 * 3.0 * 1.0 mm.

5.Inductance Code:
100 = 10μH.

3.Type Code:
ME = Magnetic Epoxy Type.

6.Tolerance Code:
M = 20%.
N = 30%.

Land Pattern (Unit: mm)

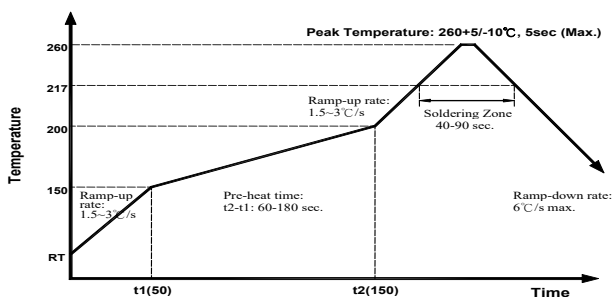


Type	A(Ref.)	B(Ref.)	C(Ref.)
ZAD-3010	2.70	3.10	0.80
ZAD-3012	2.70	3.10	0.80
ZAD-3015	2.70	3.10	0.80
ZAD-4010	3.70	4.10	1.10
ZAD-4012	3.70	4.10	1.10
ZAD-4018	3.70	4.10	1.10
ZAD-4020	3.70	4.10	1.10
ZAD-4030	3.70	4.10	1.10
ZAD-5012	4.20	5.10	1.40
ZAD-5020	4.20	5.10	1.40
ZAD-5040	4.20	5.10	1.40
ZAD-6020	5.70	6.20	1.70
ZAD-6028	5.70	6.20	1.70
ZAD-6045	5.70	6.20	1.70
ZAD-8040	7.50	8.20	2.20

Product Structure



Reflow Heat Endurance



Schematic



Operating & Storage Conditions

Operating Temp. : -40°C~+125°C (including self-temp. rise)
Storage Temp. : -40°C~+125°C (for PCBA)

Standard & Atmospheric Condition

Ambient Temp. : 20°C±15°C / Relative Humidity : 65±20%
If there may be any doubt on the result, measurement shall be made within the following limits :
Ambient Temp. : 20°C±2°C / Relative Humidity : 65±5%.

Test Equipment

LCR Meter : WK-3260B / DC Source : WK-3265B.
Resistance Meter : HIOKI-RM3545.
Caliper : Mitsutoyo 150mm.

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COIL SPECIFICATION



ZenithTek

Brand

ZenithTek

Product Series Code

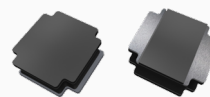
ZAD - Series

File Version

V3.0

Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-3010MES-1R0□	1.00	30	100	180	0.085	0.065	1.40	2.10	1.45	1.80
ZAD-3010MES-1R2□	1.20	30	100	137	0.085	0.065	1.25	1.70	1.45	1.80
ZAD-3010MES-1R5□	1.50	30	100	120	0.104	0.080	1.27	1.70	1.30	1.60
ZAD-3010MES-2R2□	2.20	30	100	100	0.143	0.110	1.15	1.50	1.09	1.40
ZAD-3010MES-2R7□	2.70	30	100	90	0.169	0.130	1.00	1.20	1.02	1.40
ZAD-3010MES-3R3□	3.30	30	100	74	0.189	0.145	0.97	1.20	0.96	1.20
ZAD-3010MES-3R6□	3.60	20	100	67	0.215	0.165	0.95	1.20	0.90	1.10
ZAD-3010MES-4R7□	4.70	20	100	59	0.293	0.225	0.75	1.05	0.77	1.10
ZAD-3010MES-5R6□	5.60	20	100	40	0.322	0.248	0.58	0.65	0.70	1.05
ZAD-3010MES-6R8□	6.80	20	100	42	0.397	0.305	0.55	0.72	0.66	0.96
ZAD-3010MES-8R2□	8.20	20	100	23	0.520	0.400	0.55	0.70	0.58	0.70
ZAD-3010MES-100□	10	20	100	39	0.520	0.400	0.55	0.75	0.58	0.70
ZAD-3010MES-120□	12	20	100	36	0.657	0.505	0.43	0.65	0.52	0.67
ZAD-3010MES-150□	15	20	100	30	0.793	0.610	0.42	0.57	0.47	0.57
ZAD-3010MES-220□	22	20	100	28	1.209	0.930	0.35	0.48	0.38	0.52
ZAD-3010MES-270□	27	20	100	25	1.404	1.080	0.30	0.45	0.35	0.50
ZAD-3010MES-330□	33	20	100	18	2.015	1.550	0.29	0.42	0.30	0.55
ZAD-3010MES-390□	39	20	100	18	2.275	1.750	0.28	0.38	0.28	0.53
ZAD-3010MES-430□	43	20	100	18	2.340	1.800	0.23	0.36	0.27	0.52
ZAD-3010MES-470□	47	20	100	18	2.535	1.950	0.22	0.35	0.26	0.52
ZAD-3010MES-510□	51	20	100	18	2.860	2.200	0.21	0.33	0.25	0.48
ZAD-3010MES-560□	56	20	100	16	3.016	2.320	0.21	0.28	0.24	0.35

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

Note 2: Isat: The DC current at which the inductance decreases approximately 30% from the actual value.

Note 3: Irms: The DC current at which the temperature rises approximately $\Delta T=40^{\circ}\text{C}$.

Note 4: The Rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

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COIL SPECIFICATION



ZenithTek

Brand

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Product Series Code

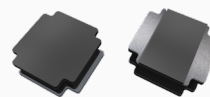
ZAD - Series

File Version

V3.0

Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-3012MES-R22□	0.22	30	100	321	0.022	0.017	5.30	6.00	3.00	3.30
ZAD-3012MES-R82□	0.82	30	100	180	0.039	0.030	2.05	2.80	2.47	3.00
ZAD-3012MES-1R0□	1.00	30	100	120	0.052	0.040	1.87	2.80	2.20	2.70
ZAD-3012MES-1R2□	1.20	30	100	120	0.059	0.045	2.22	2.50	2.01	2.20
ZAD-3012MES-1R5□	1.50	30	100	110	0.059	0.045	1.62	1.90	2.01	2.20
ZAD-3012MES-1R8□	1.80	30	100	90	0.082	0.063	1.30	1.90	1.65	1.80
ZAD-3012MES-2R2□	2.20	30	100	84	0.098	0.075	1.20	1.90	1.55	1.70
ZAD-3012MES-2R4□	2.40	30	100	100	0.088	0.068	1.15	1.50	1.60	1.70
ZAD-3012MES-2R7□	2.70	20	100	65	0.110	0.085	1.14	1.50	1.48	1.50
ZAD-3012MES-3R3□	3.30	20	100	64	0.130	0.100	1.05	1.50	1.36	1.40
ZAD-3012MES-3R6□	3.60	20	100	36	0.130	0.100	1.05	1.50	1.36	1.40
ZAD-3012MES-3R9□	3.90	20	100	61	0.189	0.145	1.00	1.30	1.24	1.30
ZAD-3012MES-4R7□	4.70	20	100	61	0.156	0.120	0.90	1.00	1.24	1.30
ZAD-3012MES-6R8□	6.80	20	100	61	0.247	0.190	0.75	0.90	0.98	1.10
ZAD-3012MES-100□	10	20	100	42	0.345	0.265	0.60	0.88	0.83	0.90
ZAD-3012MES-120□	12	20	100	32	0.449	0.345	0.48	0.67	0.73	0.84
ZAD-3012MES-150□	15	20	100	27	0.468	0.360	0.45	0.62	0.71	0.77
ZAD-3012MES-180□	18	20	100	25	0.709	0.545	0.43	0.59	0.58	0.65
ZAD-3012MES-220□	22	20	100	23	0.839	0.645	0.42	0.52	0.53	0.59
ZAD-3012MES-270□	27	20	100	21	1.131	0.870	0.35	0.48	0.47	0.51
ZAD-3012MES-330□	33	20	100	18	1.138	0.875	0.36	0.46	0.46	0.50
ZAD-3012MES-360□	36	20	100	18	1.235	0.950	0.34	0.44	0.44	0.48
ZAD-3012MES-390□	39	20	100	18	1.729	1.330	0.30	0.39	0.37	0.41
ZAD-3012MES-470□	47	20	100	14	1.885	1.450	0.27	0.35	0.35	0.40
ZAD-3012MES-560□	56	20	100	9	1.794	1.380	0.26	0.33	0.28	0.40
ZAD-3012MES-680□	68	20	100	7	2.171	1.670	0.24	0.29	0.33	0.37
ZAD-3012MES-820□	82	20	100	7	3.302	2.540	0.17	0.27	0.27	0.31
ZAD-3012MES-101□	100	20	100	5	3.718	2.860	0.21	0.23	0.25	0.29

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

Note 3: Irms (the Temperature rise current value) is the DC current value having temperature increase up to 40°C from 20°C ambient.

Note 4: The Rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

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COIL SPECIFICATION



Brand

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Product Series Code

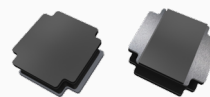
ZAD - Series

File Version

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Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-3015MES-R50□	0.50	30	100	162	0.039	0.030	3.90	4.20	2.60	2.80
ZAD-3015MES-1R0□	1.00	30	100	150	0.039	0.030	2.32	2.80	2.35	2.50
ZAD-3015MES-1R2□	1.20	30	100	110	0.052	0.040	2.21	3.10	1.95	2.30
ZAD-3015MES-1R5□	1.50	30	100	100	0.065	0.050	2.30	2.70	1.70	2.20
ZAD-3015MES-1R8□	1.80	30	100	92	0.065	0.050	1.75	2.20	1.70	2.20
ZAD-3015MES-2R2□	2.20	30	100	86	0.078	0.060	1.60	2.00	1.60	2.00
ZAD-3015MES-2R7□	2.70	30	100	64	0.098	0.075	1.52	1.90	1.43	1.90
ZAD-3015MES-3R3□	3.30	20	100	68	0.104	0.080	1.32	1.81	1.36	1.60
ZAD-3015MES-3R6□	3.60	20	100	59	0.137	0.105	1.28	1.60	1.20	1.50
ZAD-3015MES-3R9□	3.90	20	100	47	0.137	0.105	1.20	1.40	1.20	1.50
ZAD-3015MES-4R3□	4.30	20	100	53	0.150	0.115	1.20	1.40	1.14	1.30
ZAD-3015MES-4R7□	4.70	20	100	46	0.163	0.125	1.10	1.40	1.09	1.30
ZAD-3015MES-5R1□	5.10	20	100	49	0.173	0.133	1.00	1.20	1.05	1.20
ZAD-3015MES-6R2□	6.20	20	100	46	0.254	0.195	1.00	1.20	0.86	1.00
ZAD-3015MES-6R8□	6.80	20	100	39	0.260	0.200	0.85	1.10	0.85	1.10
ZAD-3015MES-100□	10	20	100	41	0.325	0.250	0.72	0.92	0.77	0.90
ZAD-3015MES-120□	12	20	100	32	0.416	0.320	0.70	0.90	0.68	0.89
ZAD-3015MES-150□	15	20	100	30	0.455	0.350	0.66	0.88	0.65	0.72
ZAD-3015MES-180□	18	20	100	23	0.559	0.430	0.56	0.72	0.59	0.72
ZAD-3015MES-220□	22	20	100	23	0.598	0.460	0.52	0.68	0.57	0.69
ZAD-3015MES-270□	27	20	100	22	0.949	0.730	0.48	0.56	0.45	0.56
ZAD-3015MES-330□	33	20	100	20	1.066	0.820	0.44	0.53	0.43	0.51
ZAD-3015MES-390□	39	20	100	14	1.294	0.995	0.41	0.55	0.39	0.44
ZAD-3015MES-430□	43	20	100	16	1.378	1.060	0.37	0.43	0.37	0.48
ZAD-3015MES-470□	47	20	100	14	1.625	1.250	0.35	0.43	0.35	0.44
ZAD-3015MES-560□	56	20	100	13	1.664	1.280	0.33	0.42	0.34	0.41
ZAD-3015MES-620□	62	20	100	13	2.093	1.610	0.30	0.40	0.30	0.41
ZAD-3015MES-680□	68	20	100	11	3.510	2.700	0.28	0.37	0.23	0.31
ZAD-3015MES-101□	100	20	100	7.2	4.043	3.110	0.23	0.25	0.21	0.25
ZAD-3015MES-151□	150	20	100	4.5	4.940	3.800	0.18	0.22	0.19	0.23

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

Note 3: Irms (the Temperature rise current value) is the DC current value having temperature increase up to 40°C from 20°C ambient.

Note 4: The Rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

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COIL SPECIFICATION



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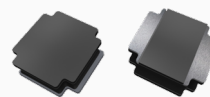
ZAD - Series

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Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-4010MES-1R0□	1.00	30	100	104	0.067	0.056	2.00	2.30	1.90	2.40
ZAD-4010MES-1R5□	1.50	30	100	71	0.084	0.070	1.68	2.00	1.70	2.00
ZAD-4010MES-2R2□	2.20	20	100	52	0.102	0.085	1.20	1.50	1.50	2.00
ZAD-4010MES-3R3□	3.30	20	100	42	0.120	0.100	1.10	1.40	1.40	1.80
ZAD-4010MES-4R7□	4.70	20	100	30	0.168	0.140	0.95	1.10	1.20	1.50
ZAD-4010MES-6R8□	6.80	20	100	26	0.240	0.200	0.80	0.95	1.00	1.20
ZAD-4010MES-100□	10	20	100	19	0.360	0.300	0.62	0.75	0.75	1.00
ZAD-4010MES-150□	15	20	100	17	0.516	0.430	0.54	0.61	0.60	0.85
ZAD-4010MES-220□	22	20	100	11	0.684	0.570	0.45	0.52	0.50	0.75

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

Note 3: Irms (the Temperature rise current value) is the DC current value having temperature increase up to 40°C from 20°C ambient.

Note 4: The Rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

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COIL SPECIFICATION



ZenithTek

Brand

ZenithTek

Product Series Code

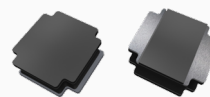
ZAD - Series

File Version

V3.0

Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-4012MES-R82□	0.82	30	100	150	0.065	0.050	3.02	3.30	1.65	2.50
ZAD-4012MES-1R0□	1.00	30	100	120	0.065	0.050	2.61	3.20	1.65	2.50
ZAD-4012MES-1R5□	1.50	30	100	90	0.085	0.065	2.10	2.70	1.46	2.20
ZAD-4012MES-1R8□	1.80	30	100	88	0.104	0.080	2.12	2.60	1.32	1.90
ZAD-4012MES-2R2□	2.20	30	100	74	0.104	0.080	1.76	2.30	1.32	1.90
ZAD-4012MES-2R7□	2.70	30	100	71	0.117	0.090	1.90	2.30	1.25	1.70
ZAD-4012MES-3R3□	3.30	30	100	60	0.143	0.110	1.72	2.10	1.12	1.60
ZAD-4012MES-3R6□	3.60	30	100	57	0.143	0.110	1.20	1.70	1.12	1.60
ZAD-4012MES-4R3□	4.30	30	100	54	0.182	0.140	1.58	1.70	1.00	1.50
ZAD-4012MES-4R7□	4.70	30	100	50	0.163	0.125	1.15	1.80	1.05	1.50
ZAD-4012MES-5R1□	5.10	30	100	50	0.201	0.155	1.55	1.60	0.95	1.50
ZAD-4012MES-5R6□	5.60	30	100	42	0.182	0.140	1.00	1.60	1.00	1.20
ZAD-4012MES-6R8□	6.80	20	100	40	0.257	0.198	0.85	1.40	0.84	1.20
ZAD-4012MES-100□	10	20	100	33	0.345	0.265	0.80	1.10	0.77	1.00
ZAD-4012MES-120□	12	20	100	32	0.377	0.290	0.66	1.00	0.70	0.95
ZAD-4012MES-150□	15	20	100	25	0.442	0.340	0.56	0.80	0.64	0.85
ZAD-4012MES-180□	18	20	100	23	0.611	0.470	0.55	0.75	0.55	0.80
ZAD-4012MES-220□	22	20	100	20	0.763	0.587	0.46	0.70	0.49	0.75
ZAD-4012MES-270□	27	20	100	18	0.936	0.720	0.50	0.70	0.45	0.60
ZAD-4012MES-330□	33	20	100	17	1.053	0.810	0.42	0.60	0.42	0.58
ZAD-4012MES-360□	36	20	100	14	1.170	0.900	0.40	0.50	0.40	0.56
ZAD-4012MES-390□	39	20	100	16	1.430	1.100	0.55	0.66	0.37	0.50
ZAD-4012MES-470□	47	20	100	12	1.430	1.100	0.35	0.50	0.37	0.50
ZAD-4012MES-560□	56	20	100	11	1.625	1.250	0.33	0.45	0.33	0.46
ZAD-4012MES-680□	68	20	100	11	2.535	1.950	0.38	0.45	0.27	0.45
ZAD-4012MES-820□	82	20	100	11	2.782	2.140	0.28	0.40	0.26	0.36
ZAD-4012MES-101□	100	20	100	9.4	2.873	2.210	0.25	0.30	0.25	0.35

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

Note 3: Irms (the Temperature rise current value) is the DC current value having temperature increase up to 40°C from 20°C ambient.

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COIL SPECIFICATION



ZenithTek

Brand

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Product Series Code

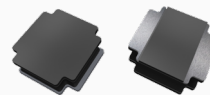
ZAD - Series

File Version

V3.0

Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-4018MES-R47□	0.47	30	100	155	0.018	0.014	4.30	5.20	4.00	4.50
ZAD-4018MES-R68□	0.68	30	100	128	0.026	0.020	4.90	5.60	3.30	3.80
ZAD-4018MES-1R0□	1.00	30	100	80	0.033	0.025	4.80	5.20	2.00	3.30
ZAD-4018MES-1R5□	1.50	30	100	65	0.039	0.030	3.35	4.00	1.80	3.20
ZAD-4018MES-1R8□	1.80	30	100	54	0.044	0.034	3.00	3.40	2.00	2.80
ZAD-4018MES-2R2□	2.20	20	100	52	0.059	0.045	2.70	3.20	1.65	2.60
ZAD-4018MES-3R3□	3.30	20	100	44	0.091	0.070	2.45	2.90	1.23	2.10
ZAD-4018MES-4R7□	4.70	20	100	34	0.117	0.090	1.70	2.20	1.20	1.80
ZAD-4018MES-6R8□	6.80	20	100	29	0.143	0.110	1.45	2.00	1.06	1.50
ZAD-4018MES-100□	10	20	100	24	0.234	0.180	1.30	1.60	0.84	1.20
ZAD-4018MES-150□	15	20	100	19	0.325	0.250	0.94	1.10	0.65	1.00
ZAD-4018MES-220□	22	20	100	16	0.468	0.360	0.80	0.88	0.59	0.85
ZAD-4018MES-330□	33	20	100	12	0.689	0.530	0.56	0.75	0.49	0.72
ZAD-4018MES-470□	47	20	100	10	0.845	0.650	0.57	0.70	0.42	0.65
ZAD-4018MES-680□	68	20	100	8.3	1.300	1.000	0.47	0.51	0.32	0.52
ZAD-4018MES-101□	100	20	100	6.5	2.275	1.750	0.40	0.44	0.25	0.41
ZAD-4018MES-151□	150	20	100	5.5	3.250	2.500	0.31	0.34	0.22	0.36
ZAD-4018MES-221□	220	20	100	4	5.200	4.000	0.27	0.30	0.17	0.27

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

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COIL SPECIFICATION



Brand

ZenithTek

Product Series Code

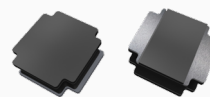
ZAD - Series

File Version

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Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-4020MES-R24□	0.24	20	100	283	0.014	0.011	10.5	12.5	4.50	5.20
ZAD-4020MES-R33□	0.33	30	100	223	0.016	0.013	7.50	8.50	3.30	4.90
ZAD-4020MES-R47□	0.47	30	100	160	0.029	0.022	7.00	7.50	3.30	3.70
ZAD-4020MES-R68□	0.68	30	100	120	0.036	0.028	6.40	6.60	2.80	3.30
ZAD-4020MES-1R0□	1.00	30	100	75	0.038	0.029	4.78	5.20	2.15	3.20
ZAD-4020MES-1R2□	1.20	30	100	72	0.038	0.029	5.10	5.60	2.15	3.20
ZAD-4020MES-1R5□	1.50	30	100	71	0.046	0.035	4.45	4.90	1.98	3.00
ZAD-4020MES-2R2□	2.20	30	100	49	0.052	0.040	3.40	3.70	1.85	2.80
ZAD-4020MES-3R3□	3.30	20	100	44	0.091	0.070	3.20	3.50	1.40	2.50
ZAD-4020MES-3R6□	3.60	20	100	49	0.072	0.055	2.80	3.00	1.54	2.50
ZAD-4020MES-4R7□	4.70	20	100	42	0.098	0.075	2.35	2.50	1.34	2.00
ZAD-4020MES-5R1□	5.10	20	100	42	0.111	0.085	2.30	2.50	1.27	1.80
ZAD-4020MES-5R6□	5.60	20	100	30	0.117	0.090	2.20	2.40	1.22	1.80
ZAD-4020MES-6R2□	6.20	20	100	36	0.150	0.115	2.15	2.30	1.08	1.60
ZAD-4020MES-6R8□	6.80	20	100	33	0.163	0.125	2.20	2.40	1.04	1.60
ZAD-4020MES-7R5□	7.50	20	100	30	0.150	0.115	1.85	2.00	1.08	1.50
ZAD-4020MES-8R2□	8.20	20	100	27	0.163	0.125	1.75	1.90	1.04	1.40
ZAD-4020MES-100□	10	20	100	26	0.215	0.165	1.60	1.70	0.90	1.20
ZAD-4020MES-120□	12	20	100	26	0.228	0.175	1.50	1.60	0.88	1.20
ZAD-4020MES-150□	15	20	100	24	0.299	0.230	1.35	1.50	0.77	1.10
ZAD-4020MES-220□	22	20	100	15	0.455	0.350	1.05	1.10	0.62	0.87
ZAD-4020MES-270□	27	20	100	14	0.709	0.545	1.02	1.10	0.50	0.70
ZAD-4020MES-330□	33	20	100	11	0.715	0.550	0.85	0.93	0.49	0.68
ZAD-4020MES-390□	39	20	100	11	0.845	0.650	0.82	0.90	0.46	0.64
ZAD-4020MES-430□	43	20	100	10	0.858	0.660	0.77	0.85	0.45	0.63
ZAD-4020MES-470□	47	20	100	10	0.923	0.710	0.74	0.81	0.44	0.61
ZAD-4020MES-510□	51	20	100	10	0.975	0.750	0.70	0.77	0.42	0.59
ZAD-4020MES-560□	56	20	100	10	1.040	0.800	0.66	0.72	0.41	0.57
ZAD-4020MES-620□	62	20	100	9.6	1.170	0.900	0.65	0.71	0.39	0.52
ZAD-4020MES-680□	68	20	100	7.7	1.380	1.060	0.61	0.67	0.36	0.50
ZAD-4020MES-750□	75	20	100	7.7	1.510	1.160	0.70	0.77	0.35	0.49
ZAD-4020MES-820□	82	20	100	7.2	1.520	1.170	0.50	0.55	0.34	0.47
ZAD-4020MES-101□	100	20	100	6.3	2.020	1.550	0.48	0.53	0.31	0.43

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

Note 3: Irms (the Temperature rise current value) is the DC current value having temperature increase up to 40°C from 20°C ambient.

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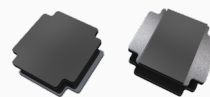
ZAD - Series

File Version

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Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-4030MES-R91□	0.91	30	100	100	0.017	0.013	6.25	6.80	4.15	4.70
ZAD-4030MES-1R0□	1.00	30	100	70	0.018	0.014	5.26	5.70	4.15	4.70
ZAD-4030MES-1R2□	1.20	30	100	80	0.020	0.015	5.80	6.30	3.82	4.20
ZAD-4030MES-1R5□	1.50	30	100	62	0.026	0.020	4.84	5.30	3.34	3.60
ZAD-4030MES-1R8□	1.80	30	100	60	0.033	0.025	4.50	5.00	3.20	3.30
ZAD-4030MES-2R2□	2.20	30	100	52	0.039	0.030	4.90	5.80	2.95	3.20
ZAD-4030MES-3R3□	3.30	20	100	38	0.052	0.040	3.30	3.60	2.40	2.60
ZAD-4030MES-3R9□	3.90	20	100	32	0.074	0.057	3.00	3.30	2.10	2.30
ZAD-4030MES-4R3□	4.30	20	100	37	0.072	0.055	2.95	3.20	2.10	2.30
ZAD-4030MES-4R7□	4.70	20	100	31	0.078	0.060	2.90	3.20	2.00	2.30
ZAD-4030MES-5R6□	5.60	20	100	30	0.085	0.065	2.60	2.80	1.95	2.10
ZAD-4030MES-6R8□	6.80	20	100	24	0.117	0.090	2.75	3.00	1.60	1.70
ZAD-4030MES-7R5□	7.50	20	100	26	0.111	0.085	2.20	2.40	1.65	1.80
ZAD-4030MES-8R2□	8.20	20	100	26	0.117	0.090	2.10	2.30	1.60	1.70
ZAD-4030MES-100□	10	20	100	21	0.130	0.100	1.95	2.40	1.50	1.60
ZAD-4030MES-120□	12	20	100	18	0.176	0.135	1.70	1.80	1.30	1.40
ZAD-4030MES-150□	15	20	100	16	0.247	0.190	1.65	1.80	1.11	1.20
ZAD-4030MES-180□	18	20	100	10	0.260	0.200	1.40	1.50	1.10	1.20
ZAD-4030MES-220□	22	20	100	10	0.293	0.225	1.30	1.40	1.00	1.20
ZAD-4030MES-330□	33	20	100	10	0.429	0.330	1.10	1.20	0.84	0.92
ZAD-4030MES-360□	36	20	100	9.8	0.436	0.335	1.05	1.10	0.83	0.91
ZAD-4030MES-390□	39	20	100	10	0.566	0.435	1.03	1.10	0.73	0.80
ZAD-4030MES-470□	47	20	100	8.4	0.579	0.445	0.95	1.00	0.72	0.80
ZAD-4030MES-510□	51	20	100	8.4	0.611	0.470	0.90	1.13	0.70	0.80
ZAD-4030MES-560□	56	20	100	8.4	0.722	0.555	0.85	0.94	0.65	0.71
ZAD-4030MES-620□	62	20	100	7	0.760	0.585	0.80	0.99	0.63	0.70
ZAD-4030MES-680□	68	20	100	7	1.128	0.868	0.72	0.80	0.52	0.57
ZAD-4030MES-750□	75	20	100	6.3	1.326	1.020	0.70	0.88	0.48	0.53
ZAD-4030MES-820□	82	20	100	5.6	1.378	1.060	0.66	0.72	0.47	0.52
ZAD-4030MES-910□	91	20	100	5.6	1.430	1.100	0.65	0.71	0.46	0.50
ZAD-4030MES-101□	100	20	100	5.6	1.495	1.150	0.60	0.73	0.45	0.49
ZAD-4030MES-121□	120	20	100	5.4	1.755	1.350	0.55	0.60	0.42	0.46

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

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ZenithTek

Product Series Code

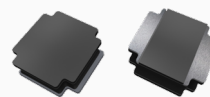
ZAD - Series

File Version

V3.0

Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-5012MES-1R0□	1.00	30	100	103	0.068	0.057	4.40	4.70	2.00	2.40
ZAD-5012MES-1R5□	1.50	30	100	68	0.086	0.072	3.70	3.80	1.90	2.20
ZAD-5012MES-2R2□	2.20	30	100	50	0.108	0.090	3.10	3.20	1.70	2.00
ZAD-5012MES-3R3□	3.30	30	100	34	0.151	0.126	2.40	2.60	1.40	1.70
ZAD-5012MES-4R7□	4.70	30	100	31	0.197	0.164	2.20	2.30	1.30	1.50
ZAD-5012MES-6R8□	6.80	20	100	22	0.294	0.245	1.70	1.90	1.00	1.20
ZAD-5012MES-100□	10	20	100	17	0.413	0.344	1.40	1.50	0.85	1.00
ZAD-5012MES-150□	15	20	100	13	0.523	0.436	1.20	1.30	0.80	0.92
ZAD-5012MES-220□	22	20	100	16	0.858	0.780	0.88	0.98	0.60	0.68

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

Note 3: Irms (the Temperature rise current value) is the DC current value having temperature increase up to 40°C from 20°C ambient.

Note 4: The Rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

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COIL SPECIFICATION



Brand

ZenithTek

Product Series Code

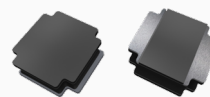
ZAD - Series

File Version

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Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μH)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-5020MES-R22□	0.22	30	100	280	0.011	0.009	9.00	12	5.30	6.00
ZAD-5020MES-R24□	0.24	30	100	248	0.011	0.009	8.00	10	5.30	6.00
ZAD-5020MES-R47□	0.47	30	100	160	0.017	0.013	6.15	6.70	4.60	5.00
ZAD-5020MES-R56□	0.56	30	100	137	0.022	0.017	8.50	9.60	3.80	4.20
ZAD-5020MES-R68□	0.68	20	100	120	0.022	0.017	5.50	6.00	4.00	4.40
ZAD-5020MES-R75□	0.75	30	100	117	0.022	0.017	5.50	6.00	4.00	4.40
ZAD-5020MES-1R0□	1.00	30	100	114	0.026	0.020	4.10	5.00	3.80	4.10
ZAD-5020MES-1R2□	1.20	30	100	83	0.029	0.022	4.50	4.90	3.55	3.90
ZAD-5020MES-1R5□	1.50	30	100	68	0.034	0.026	4.10	4.50	3.20	3.50
ZAD-5020MES-2R2□	2.20	30	100	57	0.042	0.032	3.20	4.00	2.90	3.10
ZAD-5020MES-2R7□	2.70	30	100	52	0.049	0.038	2.90	3.50	2.70	2.90
ZAD-5020MES-3R0□	3.00	30	100	49	0.049	0.038	2.55	2.80	2.70	2.90
ZAD-5020MES-3R3□	3.30	30	100	46	0.056	0.043	2.55	3.00	2.50	2.70
ZAD-5020MES-3R6□	3.60	30	100	43	0.056	0.043	2.80	3.00	2.50	2.70
ZAD-5020MES-3R9□	3.90	30	100	40	0.056	0.043	2.30	2.80	2.50	2.70
ZAD-5020MES-4R3□	4.30	20	100	37	0.074	0.057	2.50	3.00	2.20	2.40
ZAD-5020MES-4R7□	4.70	20	100	37	0.074	0.057	2.50	2.70	2.20	2.40
ZAD-5020MES-5R1□	5.10	20	100	32	0.083	0.064	2.25	2.60	2.05	2.20
ZAD-5020MES-5R6□	5.60	20	100	32	0.083	0.064	2.30	2.50	2.05	2.20
ZAD-5020MES-6R8□	6.80	20	100	30	0.108	0.083	2.05	2.20	1.80	1.90
ZAD-5020MES-7R5□	7.50	20	100	26	0.117	0.090	1.85	2.00	1.75	1.90
ZAD-5020MES-8R2□	8.20	20	100	26	0.127	0.098	1.85	2.00	1.65	1.80
ZAD-5020MES-9R1□	9.10	20	100	24	0.143	0.110	1.70	1.80	1.55	1.70
ZAD-5020MES-100□	10	20	100	24	0.143	0.110	1.70	1.80	1.55	1.70
ZAD-5020MES-120□	12	20	100	22	0.182	0.140	1.50	1.60	1.40	1.50
ZAD-5020MES-150□	15	20	100	20	0.215	0.165	1.35	1.40	1.25	1.30
ZAD-5020MES-180□	18	20	100	16	0.260	0.200	1.25	1.30	1.15	1.20
ZAD-5020MES-220□	22	20	100	14	0.294	0.226	1.15	1.20	1.10	1.20
ZAD-5020MES-330□	33	20	100	10	0.507	0.390	0.92	1.00	0.90	0.99
ZAD-5020MES-470□	47	20	100	7	0.680	0.523	0.77	0.84	0.77	0.84
ZAD-5020MES-560□	56	20	100	6	0.819	0.630	0.77	0.84	0.70	0.77
ZAD-5020MES-680□	68	20	100	6	0.962	0.740	0.65	0.70	0.64	0.70
ZAD-5020MES-820□	82	20	100	6	1.158	0.965	0.65	0.75	0.50	0.60
ZAD-5020MES-101□	100	20	100	6	1.430	1.100	0.53	0.58	0.53	0.58
ZAD-5020MES-121□	120	20	100	6	1.755	1.350	0.42	0.53	0.40	0.50
ZAD-5020MES-201□	200	20	100	4.5	2.600	2.000	0.30	0.33	0.40	0.45

Note 1: Tolerance Code: M= ±20%, N= ±30%.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

Note 3: Irms (the Temperature rise current value) is the DC current value having temperature increase up to 40°C from 20°C ambient.

Note 4: The Rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

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COIL SPECIFICATION



ZenithTek

Brand

ZenithTek

Product Series Code

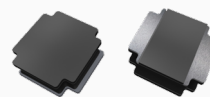
ZAD - Series

File Version

V3.0

Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-5040MES-1R0□	1.00	30	100	117	0.016	0.012	7.35	8.20	4.90	5.10
ZAD-5040MES-1R2□	1.20	30	100	110	0.021	0.016	6.50	7.10	4.15	4.30
ZAD-5040MES-1R5□	1.50	30	100	86	0.020	0.015	6.30	7.30	4.30	4.80
ZAD-5040MES-1R8□	1.80	20	100	55	0.021	0.016	5.50	6.40	4.15	4.30
ZAD-5040MES-2R2□	2.20	30	100	50	0.025	0.019	4.90	5.60	3.80	4.30
ZAD-5040MES-2R7□	2.70	30	100	37	0.029	0.022	4.30	5.10	3.60	4.10
ZAD-5040MES-3R0□	3.00	30	100	37	0.029	0.022	4.15	4.80	3.60	4.20
ZAD-5040MES-3R3□	3.30	30	100	32	0.031	0.024	3.95	4.60	3.40	3.90
ZAD-5040MES-3R9□	3.90	30	100	29	0.035	0.027	3.55	4.20	3.20	3.70
ZAD-5040MES-4R7□	4.70	30	100	28	0.039	0.030	3.50	3.90	3.00	3.30
ZAD-5040MES-5R6□	5.60	20	100	27	0.046	0.035	3.00	4.10	2.80	3.10
ZAD-5040MES-6R8□	6.80	20	100	21	0.056	0.043	2.90	3.50	2.50	2.80
ZAD-5040MES-8R2□	8.20	20	100	20	0.062	0.048	2.70	3.00	2.30	2.60
ZAD-5040MES-100□	10	20	100	18	0.083	0.064	2.35	2.90	2.10	2.40
ZAD-5040MES-150□	15	20	100	13	0.112	0.086	2.00	2.30	2.00	2.10
ZAD-5040MES-220□	22	20	100	11	0.168	0.129	1.60	1.90	1.50	1.60
ZAD-5040MES-330□	33	20	100	9	0.244	0.188	1.30	1.50	1.20	1.40
ZAD-5040MES-470□	47	20	100	7	0.354	0.272	1.10	1.30	1.00	1.10
ZAD-5040MES-680□	68	20	100	6	0.520	0.400	0.90	1.10	0.80	0.90
ZAD-5040MES-101□	100	20	100	5	0.728	0.560	0.75	0.90	0.70	0.80

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

Note 3: Irms (the Temperature rise current value) is the DC current value having temperature increase up to 40°C from 20°C ambient.

Note 4: The Rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

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COIL SPECIFICATION



ZenithTek

Brand

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Product Series Code

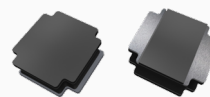
ZAD - Series

File Version

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Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-6020MES-R50□	0.50	30	100	120	0.018	0.014	4.50	6.00	4.00	5.00
ZAD-6020MES-R68□	0.68	30	100	115	0.022	0.017	6.55	7.80	3.80	4.80
ZAD-6020MES-R82□	0.82	30	100	110	0.022	0.017	5.30	6.30	3.80	4.80
ZAD-6020MES-1R0□	1.00	30	100	100	0.026	0.020	4.15	5.00	3.50	4.40
ZAD-6020MES-1R2□	1.20	30	100	88	0.029	0.022	5.90	7.00	3.20	4.00
ZAD-6020MES-1R5□	1.50	30	100	79	0.029	0.022	4.25	5.10	3.20	4.00
ZAD-6020MES-1R8□	1.80	30	100	68	0.036	0.028	4.85	5.80	2.75	3.50
ZAD-6020MES-2R0□	2.00	30	100	65	0.046	0.035	4.10	4.90	2.60	3.30
ZAD-6020MES-2R2□	2.20	30	100	61	0.036	0.028	3.75	4.50	2.75	3.50
ZAD-6020MES-2R7□	2.70	30	100	56	0.046	0.035	3.90	4.60	2.60	3.30
ZAD-6020MES-3R3□	3.30	30	100	51	0.046	0.035	3.15	3.70	2.60	3.30
ZAD-6020MES-3R9□	3.90	30	100	45	0.064	0.049	3.25	3.90	2.10	2.60
ZAD-6020MES-4R3□	4.30	30	100	44	0.064	0.049	2.70	3.20	2.10	2.60
ZAD-6020MES-4R7□	4.70	30	100	41	0.075	0.058	3.00	3.60	2.00	2.50
ZAD-6020MES-5R6□	5.60	30	100	36	0.075	0.058	2.40	2.90	1.90	2.40
ZAD-6020MES-6R2□	6.20	30	100	31	0.103	0.079	2.30	2.70	1.80	2.30
ZAD-6020MES-6R8□	6.80	30	100	31	0.103	0.079	2.20	2.60	1.80	2.30
ZAD-6020MES-8R2□	8.20	30	100	27	0.137	0.105	2.10	2.50	1.40	1.80
ZAD-6020MES-100□	10	20	100	27	0.137	0.105	1.75	2.10	1.40	1.80
ZAD-6020MES-120□	12	20	100	25	0.156	0.120	1.45	1.70	1.30	1.60
ZAD-6020MES-150□	15	20	100	21	0.189	0.145	1.20	1.40	1.20	1.50
ZAD-6020MES-180□	18	20	100	18	0.234	0.180	1.20	1.40	1.08	1.40
ZAD-6020MES-220□	22	20	100	16	0.265	0.204	1.05	1.20	1.00	1.30
ZAD-6020MES-330□	33	20	100	11	0.390	0.300	0.95	1.10	0.84	1.05
ZAD-6020MES-470□	47	20	100	10	0.559	0.430	0.70	0.90	0.80	0.90
ZAD-6020MES-331□	330	20	100	3	3.419	2.630	0.27	0.33	0.33	0.39

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

Note 3: Irms (the Temperature rise current value) is the DC current value having temperature increase up to 40°C from 20°C ambient.

Note 4: The Rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

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Product Series Code

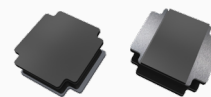
ZAD - Series

File Version

V3.0

Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-6028MES-R82□	0.82	30	100	97	0.016	0.012	6.50	9.00	5.20	6.00
ZAD-6028MES-1R0□	1.00	30	100	70	0.013	0.010	5.75	7.00	5.20	5.70
ZAD-6028MES-1R2□	1.20	30	100	69	0.017	0.013	6.40	7.50	4.58	5.00
ZAD-6028MES-1R5□	1.50	30	100	65	0.017	0.013	6.00	6.60	4.58	5.00
ZAD-6028MES-2R2□	2.20	30	100	48	0.026	0.020	5.10	5.60	3.75	4.10
ZAD-6028MES-2R7□	2.70	30	100	48	0.026	0.020	3.80	4.10	3.75	4.10
ZAD-6028MES-3R3□	3.30	30	100	41	0.033	0.025	4.15	4.50	3.48	3.80
ZAD-6028MES-4R7□	4.70	30	100	35	0.039	0.030	3.00	3.30	3.08	3.40
ZAD-6028MES-5R1□	5.10	30	100	32	0.056	0.043	3.20	3.50	2.60	2.80
ZAD-6028MES-6R2□	6.20	20	100	30	0.061	0.047	3.05	3.30	2.40	2.60
ZAD-6028MES-6R8□	6.80	20	100	27	0.061	0.047	2.60	3.00	2.40	2.60
ZAD-6028MES-8R2□	8.20	20	100	24	0.072	0.055	2.30	2.50	2.25	2.50
ZAD-6028MES-9R1□	9.10	20	100	24	0.096	0.074	2.55	2.80	2.15	2.40
ZAD-6028MES-100□	10	20	100	23	0.094	0.072	2.04	2.50	1.95	2.40
ZAD-6028MES-120□	12	20	100	18	0.104	0.080	1.80	2.00	1.85	2.00
ZAD-6028MES-150□	15	20	100	18	0.163	0.125	1.75	1.90	1.45	1.60
ZAD-6028MES-180□	18	20	100	15	0.156	0.120	1.52	1.80	1.45	1.60
ZAD-6028MES-220□	22	20	100	14	0.182	0.140	1.45	1.80	1.40	1.60
ZAD-6028MES-270□	27	20	100	13	0.202	0.155	1.50	1.60	1.32	1.40
ZAD-6028MES-330□	33	20	100	12	0.241	0.185	1.35	1.50	1.22	1.30
ZAD-6028MES-360□	36	20	100	11	0.280	0.215	1.25	1.40	1.13	1.20
ZAD-6028MES-390□	39	20	100	11	0.293	0.225	1.25	1.40	1.10	1.20
ZAD-6028MES-470□	47	20	100	9.5	0.410	0.315	1.15	1.30	1.06	1.10
ZAD-6028MES-560□	56	20	100	8.2	0.449	0.345	1.05	1.20	0.89	1.00
ZAD-6028MES-680□	68	20	100	7.7	0.468	0.360	0.80	0.95	0.86	0.95
ZAD-6028MES-750□	75	20	100	7.7	0.533	0.410	0.90	0.99	0.81	0.90
ZAD-6028MES-820□	82	20	100	7.7	0.650	0.500	0.80	0.88	0.70	0.77
ZAD-6028MES-101□	100	20	100	7.1	0.650	0.500	0.65	0.71	0.70	0.77
ZAD-6028MES-401□	400	20	100	2.8	2.808	2.160	0.30	0.33	0.40	0.45
ZAD-6028MES-102□	1000	20	100	1.5	7.540	5.800	0.18	0.22	0.23	0.26

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

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Note 4: The Rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

ZenithTek

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COIL SPECIFICATION



Brand

ZenithTek

Product Series Code

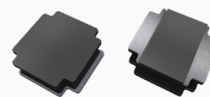
ZAD - Series

File Version

V3.0

Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μH)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-6045MES-R47□	0.47	30	100	155	0.008	0.006	15	16.5	6.50	6.60
ZAD-6045MES-R56□	0.56	30	100	142	0.008	0.006	15	14	6.50	7.50
ZAD-6045MES-R68□	0.68	30	100	99	0.008	0.006	11	12	5.70	6.50
ZAD-6045MES-R82□	0.82	30	100	140	0.010	0.008	10.35	11	5.90	6.50
ZAD-6045MES-1R0□	1.00	30	100	100	0.014	0.011	9.85	10	5.14	5.60
ZAD-6045MES-1R2□	1.20	30	100	100	0.013	0.010	8.35	9.10	5.40	5.90
ZAD-6045MES-1R3□	1.30	30	100	100	0.013	0.010	8.35	9.10	5.40	5.90
ZAD-6045MES-1R5□	1.50	30	100	65	0.016	0.012	8.80	9.70	4.95	5.40
ZAD-6045MES-1R8□	1.80	30	100	74	0.016	0.012	7.60	8.40	4.95	5.40
ZAD-6045MES-2R2□	2.20	30	100	52	0.018	0.014	6.75	7.40	4.60	5.00
ZAD-6045MES-2R3□	2.30	30	100	60	0.027	0.021	6.00	6.60	3.50	3.80
ZAD-6045MES-2R7□	2.70	30	100	38	0.020	0.015	5.75	6.30	4.30	4.70
ZAD-6045MES-3R0□	3.00	30	100	35	0.026	0.020	5.60	6.20	3.80	4.20
ZAD-6045MES-3R3□	3.30	30	100	32	0.027	0.021	5.90	6.20	3.70	4.00
ZAD-6045MES-3R6□	3.60	30	100	28	0.027	0.021	5.25	5.70	3.70	4.00
ZAD-6045MES-4R3□	4.30	20	100	23	0.030	0.023	4.45	4.90	3.50	3.80
ZAD-6045MES-4R5□	4.50	20	100	24	0.034	0.026	4.97	5.50	3.30	3.60
ZAD-6045MES-4R7□	4.70	20	100	24	0.034	0.026	4.97	5.50	3.30	3.60
ZAD-6045MES-5R1□	5.10	20	100	23	0.034	0.026	4.40	4.80	3.30	3.60
ZAD-6045MES-5R6□	5.60	20	100	23	0.038	0.029	4.15	4.60	3.15	3.40
ZAD-6045MES-6R2□	6.20	20	100	26	0.040	0.031	4.43	4.80	3.00	3.30
ZAD-6045MES-6R3□	6.30	20	100	26	0.040	0.031	4.43	4.70	3.00	3.30
ZAD-6045MES-6R8□	6.80	20	100	20	0.040	0.031	3.90	4.30	3.00	3.30
ZAD-6045MES-7R5□	7.50	20	100	18	0.044	0.034	3.50	3.80	2.90	3.20
ZAD-6045MES-8R2□	8.20	20	100	21	0.056	0.043	3.90	4.30	2.60	2.80
ZAD-6045MES-9R1□	9.10	20	100	17	0.056	0.043	3.35	3.70	2.60	2.80
ZAD-6045MES-100□	10	20	100	15	0.062	0.048	3.20	3.50	2.45	2.70
ZAD-6045MES-120□	12	20	100	13	0.075	0.058	2.80	3.00	2.20	2.40
ZAD-6045MES-150□	15	20	100	12	0.088	0.068	2.50	2.70	2.05	2.20
ZAD-6045MES-180□	18	20	100	10	0.105	0.081	2.20	2.40	1.85	2.00
ZAD-6045MES-220□	22	20	100	10	0.116	0.089	2.05	2.20	1.80	2.00
ZAD-6045MES-270□	27	20	100	9.2	0.133	0.102	1.90	2.10	1.65	1.80
ZAD-6045MES-300□	30	20	100	7.8	0.172	0.132	1.70	1.80	1.50	1.60
ZAD-6045MES-330□	33	20	100	7.8	0.178	0.137	1.65	1.80	1.45	1.60
ZAD-6045MES-360□	36	20	100	7.8	0.225	0.173	1.62	1.80	1.40	1.50
ZAD-6045MES-390□	39	20	100	7.8	0.234	0.180	1.50	1.60	1.25	1.40
ZAD-6045MES-430□	43	20	100	7.7	0.260	0.200	1.63	1.80	1.20	1.30
ZAD-6045MES-470□	47	20	100	6.4	0.260	0.200	1.40	1.50	1.20	1.30
ZAD-6045MES-510□	51	20	100	6.4	0.269	0.207	1.35	1.50	1.15	1.20

Note 1: Tolerance Code: M= ±20%, N= ±30%.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

Note 3: Irms (the Temperature rise current value) is the DC current value having temperature increase up to 40°C from 20°C ambient.

Note 4: The Rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.



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COIL SPECIFICATION



ZenithTek

Brand

ZenithTek

Product Series Code

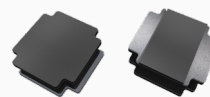
ZAD - Series

File Version

V3.0

Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-6045MES-560□	56	20	100	6.4	0.287	0.221	1.30	1.40	1.10	1.20
ZAD-6045MES-620□	62	20	100	6.4	0.306	0.235	1.25	1.40	1.10	1.20
ZAD-6045MES-680□	68	20	100	6.4	0.376	0.289	1.20	1.30	1.00	1.10
ZAD-6045MES-750□	75	20	100	5	0.397	0.305	1.15	1.20	0.95	1.00
ZAD-6045MES-820□	82	20	100	4.9	0.443	0.341	1.05	1.10	0.90	0.99
ZAD-6045MES-910□	91	20	100	4.9	0.467	0.359	1.00	1.10	0.85	0.94
ZAD-6045MES-101□	100	20	100	4.2	0.563	0.433	0.95	1.00	0.80	0.88
ZAD-6045MES-121□	120	20	100	4.2	0.629	0.484	0.85	0.94	0.77	0.85
ZAD-6045MES-151□	150	20	100	4.2	0.754	0.580	0.80	0.88	0.70	0.77
ZAD-6045MES-221□	220	20	100	3.5	1.084	0.834	0.70	0.77	0.59	0.65
ZAD-6045MES-331□	330	20	100	2.8	1.651	1.270	0.57	0.63	0.57	0.63
ZAD-6045MES-471□	470	20	100	2	2.340	1.800	0.50	0.56	0.42	0.48
ZAD-6045MES-681□	680	20	100	1.7	3.250	2.500	0.42	0.46	0.33	0.38
ZAD-6045MES-102□	1000	20	100	1.4	5.850	4.500	0.30	0.35	0.30	0.35
ZAD-6045MES-152□	1500	20	100	0.8	8.450	6.500	0.24	0.27	0.21	0.24

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

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COIL SPECIFICATION



ZenithTek

Brand

ZenithTek

Product Series Code

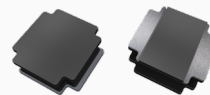
ZAD - Series

File Version

V3.0

Description

SMD Low Profile Magnetic Epoxy Inductor



Electrical Characteristic

Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (KHz)/(1V)	SRF(MHz) (Min.)	DCR (Ω)/(Max.)	DCR (Ω)/(Typ.)	Saturation Current (Isat) (A)/(Max.)	Saturation Current (Isat) (A)/(Typ.)	Temperature Current (Irms) (A)/(Max.)	Temperature Current (Irms) (A)/(Typ.)
ZAD-8040MES-R82□	0.82	30	100	94	0.010	0.008	13.8	16	6.30	6.90
ZAD-8040MES-1R0□	1.00	30	100	89	0.010	0.008	9.85	14	6.30	6.90
ZAD-8040MES-1R2□	1.20	30	100	59	0.013	0.010	10	14	5.65	6.20
ZAD-8040MES-1R5□	1.50	30	100	67	0.013	0.010	8.15	11	5.65	6.20
ZAD-8040MES-2R0□	2.00	30	100	43	0.016	0.012	9.25	10	5.15	5.60
ZAD-8040MES-2R2□	2.20	30	100	41	0.016	0.012	7.10	8.00	5.15	5.60
ZAD-8040MES-3R0□	3.00	30	100	32	0.018	0.014	6.10	7.00	4.70	5.20
ZAD-8040MES-3R3□	3.30	30	100	27	0.022	0.017	6.50	7.00	4.40	4.80
ZAD-8040MES-3R6□	3.60	30	100	30	0.022	0.017	7.52	8.50	4.35	4.80
ZAD-8040MES-3R9□	3.90	30	100	26	0.022	0.017	5.75	6.50	4.35	4.80
ZAD-8040MES-4R7□	4.70	30	100	24	0.025	0.019	5.90	6.50	4.10	4.50
ZAD-8040MES-5R1□	5.10	30	100	22	0.025	0.019	4.70	5.40	4.05	4.40
ZAD-8040MES-5R6□	5.60	30	100	24	0.027	0.021	6.00	6.90	3.85	4.20
ZAD-8040MES-6R2□	6.20	30	100	20	0.027	0.021	4.45	5.10	3.85	4.20
ZAD-8040MES-6R8□	6.80	20	100	20	0.031	0.024	4.55	5.20	3.60	4.00
ZAD-8040MES-8R2□	8.20	20	100	17	0.034	0.026	4.20	4.80	3.45	3.80
ZAD-8040MES-100□	10	20	100	15	0.038	0.029	3.60	4.10	3.30	3.60
ZAD-8040MES-120□	12	20	100	13	0.053	0.041	3.50	4.00	2.80	3.00
ZAD-8040MES-150□	15	20	100	12	0.061	0.047	2.95	3.40	2.60	2.80
ZAD-8040MES-180□	18	20	100	11	0.069	0.053	2.70	3.10	2.40	2.60
ZAD-8040MES-220□	22	20	100	9.5	0.090	0.069	2.40	2.70	2.10	2.30
ZAD-8040MES-270□	27	20	100	9.2	0.101	0.078	2.15	2.50	2.00	2.20
ZAD-8040MES-330□	33	20	100	7.8	0.126	0.097	2.05	2.40	1.80	2.00
ZAD-8040MES-360□	36	20	100	7.8	0.133	0.102	2.00	2.30	1.75	1.90
ZAD-8040MES-390□	39	20	100	7.8	0.139	0.107	1.95	2.20	1.70	1.90
ZAD-8040MES-430□	43	20	100	7.8	0.147	0.113	1.90	2.20	1.65	1.80
ZAD-8040MES-470□	47	20	100	6.4	0.177	0.136	1.75	2.00	1.55	1.70
ZAD-8040MES-510□	51	20	100	6.4	0.185	0.142	1.70	1.90	1.50	1.60
ZAD-8040MES-560□	56	20	100	6.4	0.192	0.148	1.55	1.70	1.45	1.60
ZAD-8040MES-620□	62	20	100	6.4	0.237	0.182	1.50	1.60	1.30	1.40
ZAD-8040MES-680□	68	20	100	4.9	0.255	0.196	1.45	1.60	1.25	1.40
ZAD-8040MES-750□	75	20	100	4.9	0.274	0.211	1.35	1.50	1.20	1.30
ZAD-8040MES-820□	82	20	100	5.9	0.293	0.225	1.30	1.40	1.15	1.20
ZAD-8040MES-910□	91	20	100	4.9	0.354	0.272	1.20	1.30	1.05	1.10
ZAD-8040MES-101□	100	20	100	4.2	0.377	0.290	1.15	1.30	1.00	1.10
ZAD-8040MES-121□	120	20	100	3.5	0.434	0.334	1.05	1.10	0.95	1.00
ZAD-8040MES-151□	150	20	100	3.5	0.533	0.410	1.10	1.20	0.85	0.94
ZAD-8040MES-221□	220	20	100	3.5	0.779	0.599	0.85	0.94	0.80	0.88
ZAD-8040MES-331□	330	20	100	2.8	1.156	0.889	0.68	0.75	0.64	0.70
ZAD-8040MES-471□	470	20	100	2.1	1.625	1.250	0.60	0.70	0.50	0.60

Note 1: Tolerance Code: M= $\pm 20\%$, N= $\pm 30\%$.

Note 2: Isat (the Saturation current) is DC current at which the inductance drops approximate 30% from its value without current.

Note 3: Irms (the Temperature rise current value) is the DC current value having temperature increase up to 40°C from 20°C ambient.

Note 4: The Rated current is the DC current value that satisfies both of current value saturation current value and temperature rise current value.

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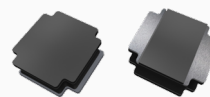


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COIL SPECIFICATION



Brand ZenithTek
Product Series Code ZAD - Series
File Version V3.0
Description SMD Low Profile Magnetic Epoxy Inductor



Reliability Test

No.	Item	Specification	Test Method
1	Temperature Shock.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $-40\pm 2^{\circ}\text{C} \sim +125\pm 2^{\circ}\text{C}$ Kept for 30 minutes. Transition time : 5 minutes. 100 Cycles.
2	Humidity Resistance.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $40\pm 2^{\circ}\text{C}$. Relative Humidity: 90%. Duration: 500 +4/-0 hours.
3	High Temperature Resistance.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $125\pm 2^{\circ}\text{C}$. Duration: 1000 +4/-0 hours.
4	Low Temperature Resistance.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Temperature: $-40\pm 2^{\circ}\text{C}$. Duration: 1000 +4/-0 hours.
5	Vibration test.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Oscillation Frequency: 10Hz to 55Hz to 10Hz in 60 seconds as a period. Total amplitude: 1.5mm. Testing Time: a period of 2 hours in each 3 mutually perpendicular directions (total of 6 hours).
6	Solderability Heat test.	Appearance: No damage. Inductance: within $\pm 10\%$ of initial.	Solder temperature: $260 \pm 0/-5^{\circ}\text{C}$. Duration: 5 sec. Allowed reflow time: 2 times.
7	Solderability test.	90% or more of electrode area shall be coated by new solder.	Preheating: 160°C , 60sec. Solder temperature: $245\pm 5^{\circ}\text{C}$. Duration : 5 sec.
8	Flexure Strength.	No visible mechanical damage.	Flexure: 2mm. Pressurizing Speed: 0.5mm/sec. Keep time: 30 ± 1 sec.
9	Terminal Strength.	No visible mechanical damage.	Reflow 2 times. Force: 10N , Keep time: 5 sec , X,Y directs.

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Brand

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Product Series Code

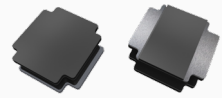
ZAD - Series

File Version

V3.0

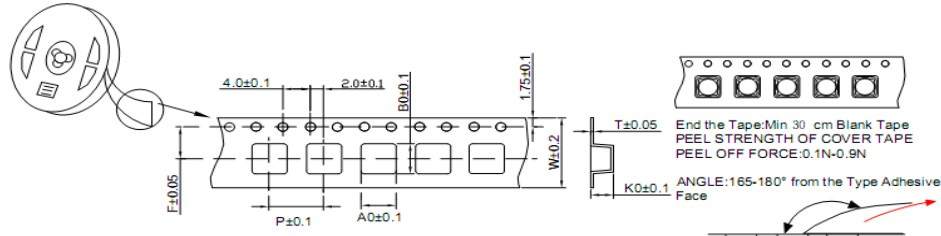
Description

SMD Low Profile Magnetic Epoxy Inductor



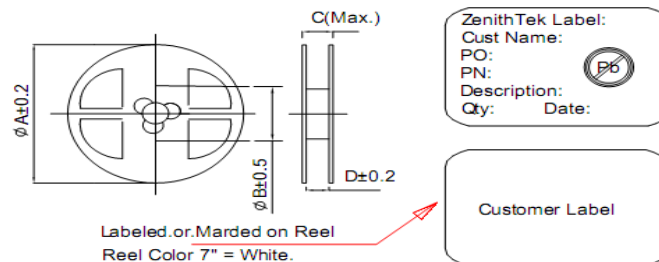
Package

Taping Dimension (mm)



Size(mm)	W	P	A0	B0	K0	T	F
ZAD-3010	8.00	4.00	3.30	3.30	1.40	0.25	3.50
ZAD-3012	8.00	4.00	3.30	3.30	1.60	0.25	3.50
ZAD-3015	8.00	4.00	3.30	3.30	1.90	0.25	3.50
ZAD-4010	12.00	8.00	4.30	4.30	1.40	0.35	5.50
ZAD-4012	12.00	8.00	4.30	4.30	1.40	0.35	5.50
ZAD-4018	12.00	8.00	4.30	4.30	2.10	0.35	5.50
ZAD-4020	12.00	8.00	4.30	4.30	2.40	0.40	5.50
ZAD-4030	12.00	8.00	4.30	4.30	3.20	0.40	5.50
ZAD-5012	12.00	8.00	5.30	5.30	1.40	0.35	5.50
ZAD-5020	12.00	8.00	5.40	5.40	2.20	0.35	5.50
ZAD-5040	12.00	8.00	5.30	5.30	4.20	0.40	5.50
ZAD-6020	16.00	8.00	6.30	6.30	2.50	0.40	7.50
ZAD-6028	16.00	8.00	6.40	6.40	3.30	0.40	7.50
ZAD-6045	16.00	8.00	6.40	6.40	4.70	0.40	7.50
ZAD-8040	16.00	12.00	8.35	8.35	4.40	0.40	7.50

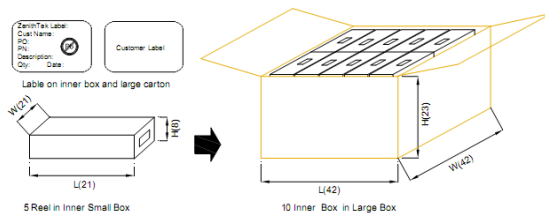
Reel Dimension (mm)



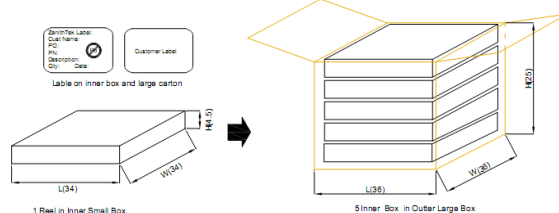
Size(mm)	A	B	C	D	Reel/Size	Qty./Size
ZAD-3010	178	58	14.4	8.4	7"	2000 Pcs
ZAD-3012	178	58	14.4	8.4	7"	2000 Pcs
ZAD-3015	178	58	14.4	8.4	7"	2000 Pcs
ZAD-4010	330	100	18.4	12.4	13"	5000 pcs
ZAD-4012	330	100	18.4	12.4	13"	4500 pcs
ZAD-4018	330	100	18.4	12.4	13"	3000 pcs
ZAD-4020	330	100	18.4	12.4	13"	3000 pcs
ZAD-4030	330	100	18.4	12.4	13"	2000 pcs
ZAD-5012	330	100	18.4	12.4	13"	4500 pcs
ZAD-5020	330	100	18.4	12.4	13"	2500 pcs
ZAD-5040	330	100	18.4	12.4	13"	1500 pcs
ZAD-6020	330	100	22.4	16.4	13"	2500 pcs
ZAD-6028	330	100	22.4	16.4	13"	2000 pcs
ZAD-6045	330	100	22.4	16.4	13"	1500 pcs
ZAD-8040	330	100	22.4	16.4	13"	1000 pcs

Box Dimension (mm)

7" Size



13" Size



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