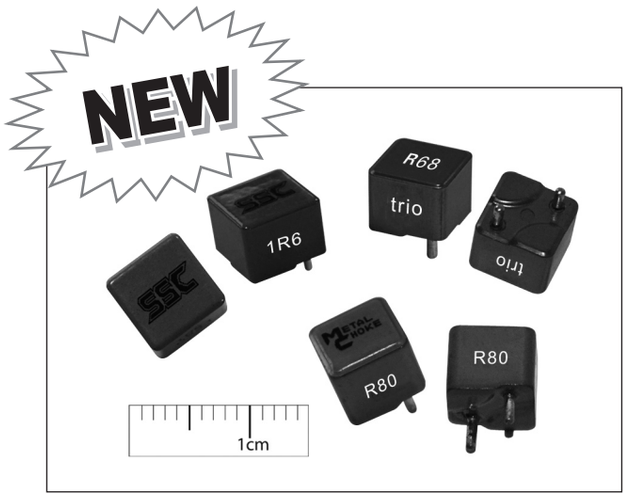
DIP METAL ALLOY POWER INDUCTORS
(LM-XXX SERIES)

trio



● PART NUMBERING

LM - □□□ □ □□ □ □□
(1) (2) (3) (4) (5) (6)

(1) Series
(2) Inductance
(3) Tolerance
(4) Dimension
(5) Material
(6) Internal Serial No.

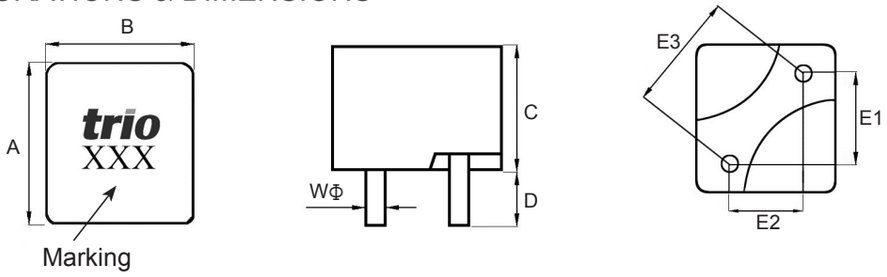
● FEATURES

- Molding type with metal alloy powder construction.
- Large current and shielded design.
- Low DC resistance and low copper loss.
- Ultra low buzz noise.

● APPLICATIONS

- Personal computers & Servers
- VGA cards
- DC/DC converters
- VRMs

● CONFIGURATIONS & DIMENSIONS



Unit : mm

SERIES	A	B	C	D	E1	E2	E3	WΦ
LM-182	6.0±0.3	9.0±0.3	8.0Max.	3.4±0.5	2.0	4.6	5.00	0.6~0.9
LM-132	6.8±0.3	6.8±0.3	9.0Max.	3.4±0.5	4.0	4.0	5.66	0.6~0.9
LM-232	6.6±0.3	8.0±0.3	8.0Max.	3.4±0.5	2.5	4.3	5.00	0.7~1.0
LM-072	8.3±0.3	8.3±0.3	10.0Max.	3.4±0.5	4.0	6.0	7.20	0.7~1.0
LM-172	8.8±0.3	10.8±0.3	9.0Max.	3.4±0.5	5.1	5.1	7.20	0.7~1.0
LM-212	10.5±0.3	10.5±0.3	6.0Max.	3.4±0.5	6.0	4.5	7.50	0.7~1.2
LM-242	7.2±0.3	10.5±0.3	7.0Max.	3.4±0.5	3.6	5.4	6.50	0.7~1.1
LM-082	10.5±0.3	10.5±0.3	9.5Max.	3.4±0.5	4.5	6.0	7.50	0.8~1.3
LM-012	11.5±0.3	11.5±0.3	9.5Max.	3.4±0.5	6.2	6.9	9.27	0.8~1.6
LM-032	12.0±0.3	12.0±0.3	10.0Max.	3.4±0.5	6.0	7.3	9.50	0.8~1.7
LM-042	13.5±0.3	12.5±0.3	10.0Max.	3.4±0.5	6.5	7.6	10.0	1.0~1.8
LM-162	14.0±0.5	14.0±0.5	12.5Max.	3.4±0.5	8.8	8.8	12.5	1.0~2.0
LM-142	16.5±0.5	16.5±0.5	13.5Max.	3.4±0.5	9.5	9.5	13.5	1.0~2.0

Customers' designs and requirements are welcome.

● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L (μH)	DCR (Ω, Max.)		Isat (A, Max.)	Irms (A, Max.)
			Typ.	Max.		
LM-20B□182□□	MFG0508-R20□	0.20	0.0012	0.0014	24	20
LM-36B□182□□	MFG0508-R36□	0.36	0.0020	0.0024	20	18
LM-47B□182□□	MFG0508-R47□	0.47	0.0022	0.0026	18	16
LM-56B□182□□	MFG0508-R56□	0.56	0.0025	0.0030	15	15
LM-27B□132□□	MFG0608-R27□	0.27	0.0016	0.0020	37	22
LM-40B□132□□	MFG0608-R40□	0.4	0.0020	0.0024	35	21
LM-10A□132□□	MFG0608-1R0□	1.0	0.0035	0.0040	25	16
LM-12A□132□□	MFG0608-1R2□	1.2	0.0039	0.0043	22	15
LM-16A□132□□	MFG0608-1R6□	1.6	0.0056	0.0064	20	12
LM-36B□232□□	MFG0708-R36□	0.36	0.0015	0.0018	30	25
LM-80B□072□□	MFG0810-R80□	0.8	0.0023	0.0027	28	20
LM-10A□072□□	MFG0810-1R0□	1.0	0.0028	0.0033	25	20
LM-12A□072□□	MFG0810-1R2□	1.2	0.0033	0.0037	24	18
LM-15A□072□□	MFG0810-1R5□	1.5	0.0040	0.0045	21	15
LM-20A□072□□	MFG0810-2R0□	2.0	0.0046	0.0052	18	13
LM-30A□072□□	MFG0810-3R0□	3.0	0.0073	0.0079	15	11
LM-12A□172□□	MFG0909-1R2□	1.2	0.0024	0.0028	25	22
LM-30B□212□□	MFG1006-R30□	0.3	0.0007	0.0008	35	35
LM-47B□212□□	MFG1006-R47□	0.47	0.0009	0.0011	30	30
LM-68B□212□□	MFG1006-R68□	0.68	0.0012	0.0014	28	28
LM-36B□242□□	MFG1007-R36□	0.36	0.0008	0.0010	30	30
LM-47B□242□□	MFG1007-R47□	0.47	0.0011	0.0013	27	27
LM-60B□242□□	MFG1007-R60□	0.60	0.0014	0.0016	25	25
LM-30B□082□□	MFG1009-R30□	0.3	0.0008	0.0011	45	30
LM-47B□082□□	MFG1009-R47□	0.47	0.0010	0.0013	40	30
LM-68B□082□□	MFG1009-R68□	0.68	0.0012	0.0016	35	28
LM-10A□082□□	MFG1009-1R0□	1.0	0.0017	0.0021	30	23
LM-12A□082□□	MFG1009-1R2□	1.2	0.0020	0.0025	27	22
LM-15A□082□□	MFG1009-1R5□	1.5	0.0024	0.0029	25	21
LM-18A□082□□	MFG1009-1R8□	1.8	0.0035	0.0041	24	20
LM-30B□012□□	MFG1109-R30□	0.3	0.0006	0.0009	55	35
LM-47B□012□□	MFG1109-R47□	0.47	0.0009	0.0012	50	30
LM-60B□012□□	MFG1109-R60□	0.60	0.0009	0.0012	45	30
LM-80B□012□□	MFG1109-R80□	0.80	0.0013	0.0016	40	28
LM-10A□012□□	MFG1109-1R0□	1.0	0.0014	0.0018	35	25
LM-12A□012□□	MFG1109-1R2□	1.2	0.0014	0.0018	32	25
LM-15A□012□□	MFG1109-1R5□	1.5	0.0025	0.0028	30	23
LM-18A□012□□	MFG1109-1R8□	1.8	0.0028	0.0033	26	20
LM-20A□012□□	MFG1109-2R0□	2.0	0.0035	0.0040	25	18
LM-22A□012□□	MFG1109-2R2□	2.2	0.0042	0.0048	24	17
LM-47A□012□□	MFG1109-4R7□	4.7	0.0088	0.0096	20	12
LM-100□012□□	MFG1109-100□	10	0.0100	0.0120	11	11
LM-220□012□□	MFG1109-220□	22	0.0230	0.0270	9	7

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● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L (μH)	DCR (Ω, Max.)		Isat (A, Max.)	Irms (A, Max.)
			Typ.	Max.		
LM-30B□032□□	MFG1210-R30□	0.3	0.00068	0.00096	65	36
LM-60B□032□□	MFG1210-R60□	0.6	0.00090	0.00120	55	30
LM-80B□032□□	MFG1210-R80□	0.8	0.00130	0.00160	45	28
LM-10A□032□□	MFG1210-1R0□	1.0	0.00140	0.00180	40	25
LM-15A□032□□	MFG1210-1R5□	1.5	0.00250	0.00280	35	23
LM-20A□032□□	MFG1210-2R0□	2.0	0.00320	0.00380	30	20
LM-30B□042□□	MFG1310-R30□	0.3	0.00045	0.00060	70	38
LM-47B□042□□	MFG1310-R47□	0.47	0.00070	0.00105	60	35
LM-68B□042□□	MFG1310-R68□	0.68	0.00100	0.00125	55	30
LM-10A□042□□	MFG1310-1R0□	1.0	0.00120	0.00160	45	27
LM-12A□042□□	MFG1310-1R2□	1.2	0.00130	0.00180	42	26
LM-15A□042□□	MFG1310-1R5□	1.5	0.00188	0.00240	40	25
LM-20A□042□□	MFG1310-2R0□	2.0	0.00220	0.00270	35	23
LM-82A□042□□	MFG1310-8R2□	8.2	0.00830	0.00990	15	13
LM-150□042□□	MFG1310-150□	15	0.01580	0.01750	12	10
LM-30B□162□□	MFG1412-R30□	0.3	0.00030	0.00050	80	45
LM-47B□162□□	MFG1412-R47□	0.47	0.00035	0.00060	75	42
LM-68B□162□□	MFG1412-R68□	0.68	0.00060	0.00090	70	40
LM-10A□162□□	MFG1412-1R0□	1.0	0.00090	0.00130	60	35
LM-16A□162□□	MFG1412-1R6□	1.6	0.00130	0.00180	50	32
LM-20A□162□□	MFG1412-2R0□	2.0	0.00160	0.00220	42	28
LM-30B□142□□	MFG1613-R30□	0.3	0.00027	0.00042	100	50
LM-47B□142□□	MFG1613-R47□	0.47	0.00032	0.00050	90	48
LM-68B□142□□	MFG1613-R68□	0.68	0.00055	0.00080	80	45
LM-10A□142□□	MFG1613-1R0□	1.0	0.00080	0.00120	70	42
LM-16A□142□□	MFG1613-1R6□	1.6	0.00120	0.00160	60	38
LM-20A□142□□	MFG1613-2R0□	2.0	0.00150	0.00190	50	28

- All test data is referenced at 25°C ambient
- Inductance test frequency at 100KHz,1Vrms.
- △T= 40°C approximately at Irms.
- Inductance drops approximately 20% at Isat.
- Operating temperature range: –55°C to +150°C

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