YUAN DEAN SCIENTIFIC

FEATURES:

- Magnetically shielded construction
- Ultra-low buzz noise, due to composite construction
- Large Current and Low DCR

APPLICATIONS:

- Excellent for power line DC-DC conversion applications used in power switching, personal computers and other handheld electronic equipment

SMT Shielded Power Inductor

MPI SERIES

ROHS COMPLIANT

Part Number

MPI	06	03	-	R10	M	32R5A
A	B	C		D	E	F

A : Series

B : Outside Dia: mm

C : Body High: mm

D : Inductance (μH)

E : Tolerance: K=±10% L=±15% M=±20% N=±30%

F : Current

※Test Freq. : 100KHz/1V.

※Operating Temp. : -55℃~+125℃

※Inductance drop=20% typ. at Isat.

※ΔT=40℃ rise at Irms

www.yds.com.tw

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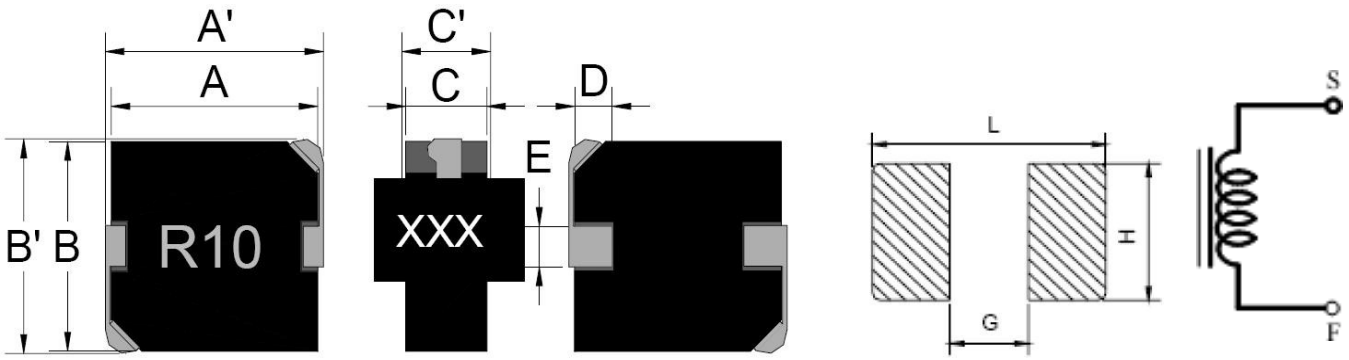
Physical Dimensions



TYPE	A ±0.5	A' (MAX)	B ±0.5	B' (MAX)	C (MAX)	C' (MAX)	D ±0.5	E ±0.5	L	G	H
MPI0603	6.86	7.8	6.47	7.0	3.0	3.2	1.6	2.1	8.7	3.7	3.5
MPI1004	10.70	11.8	10.00	10.5	4.0	4.2	2.2	2.9	12.4	5.4	4.5
MPI1203	12.7	13.9	12.7	13.5	3.5	3.7	2.5	3.0	15.0	7.0	4.5
MPI1205	12.7	13.9	12.7	13.5	5.0	5.2	2.5	3.0	15.0	7.0	4.5

Dimension:mm
Unless otherwise specified , all tolerances are ±0.25
※Design as Customer's Requested Specifications.

Specifications

MPI0603

Part No.	Inductance L0(uH)	DCR(Ω) (MAX)	Irms(A) (MAX)	Isat(A) (MAX)
MPI0603-R10M32R5A	0.10	1.70	32.50	42.0
MPI0603-R15M26A	0.15	2.50	26.00	38.0
MPI0603-R20M24A	0.20	3.00	24.00	36.0
MPI0603-R22M23A	0.22	2.80	23.00	36.0
MPI0603-R33M20A	0.33	3.90	20.00	30.0
MPI0603-R47M17R5A	0.47	4.20	17.50	26.0
MPI0603-R68M15R5A	0.68	5.50	15.50	23.0
MPI0603-R82M13A	0.82	8.00	13.00	20.0
MPI0603-1R0M11A	1.00	10.0	11.00	16.0
MPI0603-1R5M9A	1.50	15.0	9.00	14.0
MPI0603-2R2M8A	2.20	20.0	8.00	12.0
MPI0603-3R3M6A	3.30	30.0	6.00	10.0
MPI0603-5R6M5R5A	5.60	40.0	5.50	6.5
MPI0603-6R8M4R5A	6.80	60.0	4.50	6.0

Specifications

MPI1004

Part No.	Inductance L0(uH)	DCR(Ω) (MAX)	Irms(A) (MAX)	IDC(A) (MAX)
MPI1004-R36M28A	0.36	1.40	28.0	40.0
MPI1004-R47M26A	0.47	1.60	26.0	38.0
MPI1004-R56M25A	0.56	1.90	25.0	36.0
MPI1004-R68M23A	0.68	2.40	23.0	32.0
MPI1004-1R0M20A	1.00	3.50	20.0	28.0
MPI1004-1R5M12A	1.50	7.50	12.0	20.0
MPI1004-2R2M11R5A	2.20	8.56	11.5	16.5
MPI1004-3R3M10A	3.30	10.00	10.0	14.0
MPI1004-4R7M8A	4.70	13.50	8.00	13.0
MPI1004-5R6M7A	5.60	16.00	7.00	12.0
MPI1004-8R2M5A	8.20	32.50	5.00	8.00

MPI1203

Part No.	Inductance L0(uH)	DCR(Ω) (MAX)	Irms(A) (MAX)	IDC(A) (MAX)
MPI1203-R10M43A	0.10	0.96	43.0	56.0
MPI1203-R15M41A	0.15	1.20	41.0	50.0
MPI1203-R22M38R5A	0.22	1.30	38.5	50.0
MPI1203-R33M36R5A	0.33	1.50	36.5	50.0
MPI1203-R47M32A	0.47	2.00	32.0	44.0
MPI1203-R60M29A	0.60	2.50	29.0	42.0
MPI1203-R68M28A	0.68	2.50	28.0	40.0
MPI1203-R82M25A	0.82	3.00	25.0	38.0
MPI1203-1R0M24A	1.00	3.50	24.0	36.0
MPI1203-1R5M19A	1.50	5.50	19.0	28.0
MPI1203-1R8M16R5A	1.80	7.00	16.5	24.0
MPI1203-2R2M16A	2.20	8.00	16.0	20.0
MPI1203-3R3M12A	3.30	12.00	12.0	18.0
MPI1203-4R7M10A	4.70	15.00	10.0	16.0
MPI1203-5R6M10A	5.60	18.00	10.0	14.0
MPI1203-6R8M9A	6.80	22.00	9.0	13.0

MPI1205PW

Part No.	Inductance L0(uH)	DCR(Ω) (MAX)	Irms(A) (MAX)	IDC(A) (MAX)
MPI1205PW-R36M41A	0.36	1.1	41.0	75.0
MPI1205PW-R47M38A	0.47	1.3	38.0	65.0
MPI1205PW-R50M36A	0.50	1.5	36.0	55.0
MPI1205PW-R56M36A	0.56	1.5	36.0	55.0
MPI1205PW-R68M34A	0.68	1.7	34.0	54.0
MPI1205PW-1R0M29A	1.00	2.5	29.0	50.0
MPI1205PW-1R5M23A	1.50	4.1	23.0	48.0

Specifications

MPI1205HW

Part No.	Inductance L0(uH)	DCR(Ω) (MAX)	Irms(A) (MAX)	IDC(A) (MAX)
MPI1205HW-8R2M8R5A	8.20	28	8.5	12.0
MPI1205HW-100M7A	10.00	34	7.0	9.5

MPI1254

Part No.	Inductance L0(uH)	DCR(Ω) (MAX)	Irms(A) (MAX)	IDC(A) (MAX)
MPI1254-R68M29R7A	0.68	1.5	29.7	38.8
MPI1254-1R0M25R7A	1.00	2.0	25.7	33.6
MPI1254-1R2M23R1A	1.20	2.6	23.1	26.9
MPI1254-2R2M17R8A	2.20	4.5	17.8	19.6
MPI1254-3R3M14R4A	3.30	7.0	14.4	17.5
MPI1254-4R7M12R8A	4.70	8.8	12.8	14.9

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