

Radial Leaded Type Power Inductors For V-co Power Supply(Wound, Magnetic Shielded)



FEATURES

- High power handling capability:Small copper loss
 Using large saturation induction of Ferrite metals
- Wide operating temperature range
- Low core loss for high frequency switching

APPLICATIONS

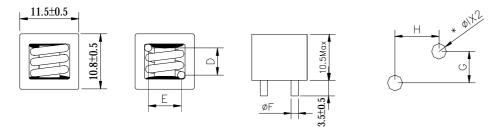
Personal computers, Graph card VRMs, etc.

PRODUCT IDENTIFICATION

MSQ-1211-R36 M

- 0 0 0 0
- Product Code
- 2 Dimensions Code
- **3** Inductance Code
- **4** Tolerance Code

DIMENSIONS and RECOMMENDED PC BOARD PATTERN



MSQ-1211	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	φE(mm)
-R20M	5.0 ±0.5	6.0 ±0.5	1.5 ±0.1	5.0	6.0	1.75
-R25M	5.0 ±0.5	6.0 ± 0.5	1.5 ±0.1	5.0	6.0	1.75
-R36M	5.0 ± 0.5	6.0 ± 0.5	1.5 ±0.1	5.0	6.0	1.75
-R47M	5.0 ±0.5	6.0 ± 0.5	1.5 ±0.1	5.0	6.0	1.75
-R60M	5.0 ± 0.5	6.0 ± 0.5	1.5 ±0.1	5.0	6.0	1.75
-1R2M	6.0 ±0.5	7.0 ± 0.5	1.0 ±0.1	6.0	7.0	1.25
-1R5M	6.0 ± 0.5	7.0 ± 0.5	1.0 ±0.1	6.0	7.0	1.25
-3R0M	6.0 ±0.5	7.0 ±0.5	0.75 ±0.1	6.0	7.0	1.0

ELECTRICAL CHARACTERISTICS

	Inductance (µH)	Inductance tolerance(%)	Test	DC	Rated	current*
Part No.			Frequency	resistance	Idc1(A)	Idc2(A)
			(kHz)	(m Ω)	Max.	Тур.
MSQ-1211-R20M	0.20	±20	100	0.72±6%	40.0	40.0
MSQ-1211-R25M	0.25	±20	100	0.72±6%	40.0	40.0
MSQ-1211-R36M	0.36	±20	100	0.72±6%	40.0	40.0
MSQ-1211-R47M	0.47	±20	100	0.90±6%	40.0	35.0
MSQ-1211-R60M	0.60	±20	100	0.90±6%	30.0	35.0
MSQ-1211-1R2M	1.2	±20	100	3.15±20%	25.0	20.0
MSQ-1211-1R5M	1.5	±20	100	3.15±20%	24.0	20.0
MSQ-1211-3R0M	3.0	±20	100	7.31±20%	18.0	10.0

^{*} Rated current: Idc1: DC current flows and the nominal value of inductance has fallen by 30% Max. Idc2: Value obtained when current flows and the temperature has risen to 40°C Typ.

Operating temperature range: -40 to +105°C (Including self-temperature rise)

[·] All specifications are subject to change without notice.



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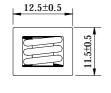
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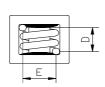
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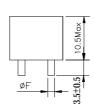
MSQ-1310-R47 M

- 0 0 0 0
- Product Code
- 2 Dimensions Code
- **3** Inductance Code
- Tolerance Code

DIMENSIONS and RECOMMENDED PC BOARD PATTERN









MSQ-1310	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	φl(mm)
-R47M	6.2 ±0.5	7.4 ±0.5	1.5 ±0.1	6.2	7.4	1.75
-R60M	6.2 ±0.5	7.4 ±0.5	1.5 ±0.1	6.2	7.4	1.75
-R80M	6.2 ± 0.5	7.4 ± 0.5	1.5 ±0.1	6.2	7.4	1.75
-1R2M	6.6 ±0.5	7.7 ±0.5	1.3 ±0.1	6.6	7.7	1.55
-1R5M	6.6 ± 0.5	7.7 ± 0.5	1.3 ±0.1	6.6	7.7	1.55

ELECTRICAL CHARACTERISTICS

	Inductance (μΗ)	Inductance tolerance(%)	Test	DC	Rated	current*
Part No.			Frequency	resistance	Idc1(A)	Idc2(A)
			(kHz)	(m Ω)	Max.	Тур.
MSQ-1310-R47M	0.47	±20	100	0.56±6%	40.0	40.0
MSQ-1310-R60M	0.60	±20	100	0.56±6%	40.0	40.0
MSQ-1310-R80M	0.80	±20	100	1.0±6%	40.0	40.0
MSQ-1310-1R2M	1.2	±20	100	1.55 ± 6%	35.0	28.0
MSQ-1310-1R5M	1.5	±20	100	1.55 ±6 %	31.0	28.0

^{*} Rated current: Idc1: DC current flows and the nominal value of inductance has fallen by 30% Idc2: Value obtained when current flows and the temperature has risen to 40°C Typ. Operating temperature range: –40 to +105°C (Including self-temperature rise)



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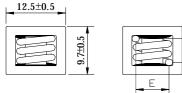
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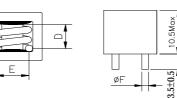
PRODUCT IDENTIFICATION

MSQ-131010-R50 M

- 0 0 0 0
- Product Code
- 2 Dimensions Code
- **3** Inductance Code
- Tolerance Code

DIMENSIONS and RECOMMENDED PC BOARD PATTERN







MSQ-13101	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	φl(mm)
-R50M	4.85 ±0.5	7.8 ±0.5	1.3 ±0.1	4.9	7.8	1.55
-1R2M	4.85 ±0.5	7.8 ± 0.5	1.3 ±0.1	4.9	7.8	1.55

ELECTRICAL CHARACTERISTICS

	Inductance (µH)	Inductance tolerance(%)	Test	DC	Rated	current*
Part No.			Frequency	resistance	Idc1(A)	Idc2(A)
			(kHz)	(m Ω)	Max.	Тур.
MSQ-131010-R50M	0.50	±20	100	0.95±6%	40.0	40.0
MSQ-131010-1R2M	1.20	±20	100	1.24±6%	28.0	28.0

^{*} Rated current: Idc1: DC current flows and the nominal value of inductance has fallen by 30% Idc2: Value obtained when current flows and the temperature has risen to 40°C Typ.

Operating temperature range: -40 to +105°C (Including self-temperature rise)