

## SHAPES AND DIMENSIONS

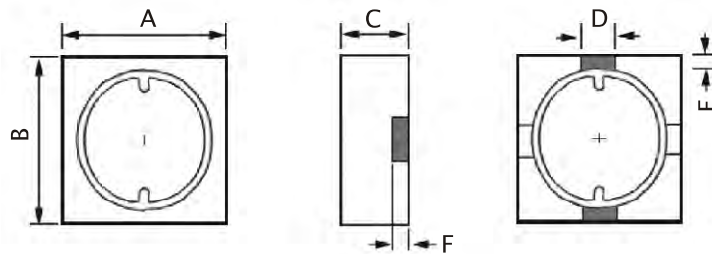
### Series **QS** *Shielded*

#### PRODUCT IDENTIFICATION

QS 07 X 03 1 M 10U  
a b c d e f g

- a : Type of products - SMD Power Inductors QS series.  
b : Dimension(mm) - 07 : 7.3X7.3, 10 : 10.2X10.0  
c : Materials - X = No Define  
d : Thickness(mm) - 03 = 3.0, 04 = 4.0, 05 = 4.5, 06 = 6.0, 08 = 8.0, 11 = 11.0  
e : Packing - PCS/REEL - 1 = 1000, U = 900, I = 500  
f : Tolerance - K :  $\pm 10\%$ , M :  $\pm 20\%$   
g : Inductance - 100N = 0.1uH, 10U = 10.0 uH, 1M2 = 1200uH

#### SHAPES & DIMENSIONS



Type	A	B	C	D	E
QS07X03	7.3 $\pm$ 0.4	7.3 $\pm$ 0.3	3.0 $\pm$ 0.3	1.8 Typ	0.6 Typ
QS07X04	7.3 $\pm$ 0.4	7.3 $\pm$ 0.3	4.0 $\pm$ 0.3	1.8 Typ	0.6 Typ
QS10X03	10.4 $\pm$ 0.5	10.0 $\pm$ 0.5	3.0 $\pm$ 0.5	4.9 $\pm$ 0.3	0.9 $\pm$ 0.3
QS10X04	10.2 $\pm$ 0.4	10.0 $\pm$ 0.3	4.0 Max.	3.8 Typ	1.0 Typ
QS10X05	10.4 $\pm$ 0.5	10.0 $\pm$ 0.5	4.5 $\pm$ 0.5	4.9 $\pm$ 0.3	0.9 $\pm$ 0.3
QS10X06	10.4 $\pm$ 0.5	10.0 $\pm$ 0.5	6.0 $\pm$ 0.5	4.9 $\pm$ 0.3	0.9 $\pm$ 0.3
QS10X08	10.4 $\pm$ 0.5	10.0 $\pm$ 0.5	8.0 $\pm$ 0.5	4.9 $\pm$ 0.3	0.9 $\pm$ 0.3
QS10X11	10.2 $\pm$ 0.4	10.0 $\pm$ 0.3	11.0 Max.	3.8 Typ	1.0 Typ

in mm

# SMD POWER INDUCTORS

Series **QS Shielded**

## ELECTRICAL CHARACTERISTICS

TEST FREQUENCY 0.8uH ~ 8.2uH @ 100KHz / 0.25V      10uH ~ 10000uH @ 1KHz / 0.25V

Part Number	Inductance ( $\mu$ H)	RDC ( $\Omega$ ) max.	IDC (A) max.
QS07X031□1U	1.00	0.018	5.00
QS07X031□1U2	1.20	0.020	4.80
QS07X031□1U8	1.80	0.020	4.00
QS07X031□2U2	2.20	0.025	3.50
QS07X031□2U4	2.40	0.030	3.40
QS07X031□2U5	2.50	0.030	3.40
QS07X031□3U3	3.30	0.030	3.20
QS07X031□3U5	3.50	0.032	3.00
QS07X031□4U7	4.70	0.040	2.20
QS07X031□6U8	6.80	0.050	1.80
QS07X031□10U	10.00	0.080	1.40
QS07X031□12U	12.00	0.100	1.30
QS07X031□15U	15.00	0.110	1.20
QS07X031□18U	18.00	0.130	1.10
QS07X031□22U	22.00	0.180	1.00
QS07X031□27U	27.00	0.200	0.90
QS07X031□33U	33.00	0.260	0.82
QS07X031□39U	39.00	0.300	0.75
QS07X031□47U	47.00	0.410	0.68
QS07X031□56U	56	0.430	0.62
QS07X031□68U	68	0.500	0.58
QS07X031□82U	82	0.720	0.55
QS07X031□100U	100	0.780	0.50
QS07X031□270U	270	1.680	0.34
QS07X031□330U	330	1.900	0.31
QS07X031□1M	1000	6.800	0.17
QS07X031□10M	10000	73.230	0.05
QS07X041□800N	0.8	0.090	5.80
QS07X041□1U	1	0.040	2.10
QS07X041□1U2	1.2	0.040	2.10
QS07X041□1U5	1.5	0.040	2.10
QS07X041□1U8	1.8	0.040	2.09
QS07X041□2U2	2.2	0.040	2.08
QS07X041□2U5	2.5	0.040	2.08
QS07X041□3U3	3.3	0.040	2.07
QS07X041□4U3	4.3	0.040	2.06
QS07X041□4U7	4.7	0.042	2.05
QS07X041□5U6	5.6	0.043	2.04
QS07X041□6U8	6.8	0.044	2.04
QS07X041□10U	10	0.049	2.00
QS07X041□12U	12	0.058	1.90
QS07X041□15U	15	0.081	1.60
QS07X041□18U	18	0.091	1.48
QS07X041□22U	22	0.110	1.32
QS07X041□27U	27	0.150	1.26
QS07X041□33U	33	0.170	1.10
QS07X041□39U	39	0.230	1.05
QS07X041□47U	47	0.260	1.00
QS07X041□56U	56	0.350	0.85
QS07X041□68U	68	0.380	0.78
QS07X041□82U	82	0.430	0.74
QS07X041□100U	100	0.610	0.70
QS07X041□120U	120	0.660	0.60

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Part Number	Inductance ( $\mu$ H)	RDC ( $\Omega$ ) max.	IDC (A) max.
QS07X041□150U	150	0.880	0.52
QS07X041□180U	180	0.980	0.46
QS07X041□220U	220	1.170	0.40
QS07X041□270U	270	1.640	0.36
QS07X041□330U	330	1.860	0.32
QS07X041□390U	390	2.850	0.28
QS07X041□470U	470	3.010	0.26
QS07X041□560U	560	3.620	0.24
QS07X041□680U	680	4.630	0.22
QS07X041□820U	820	5.200	0.20
QS07X041□1M	1000	6.000	0.18
QS10X031□1U	1	0.010	14.00
QS10X031□2U2	2.2	0.015	10.00
QS10X031□2U8	2.8	0.017	8.70
QS10X031□3U3	3.3	0.018	8.00
QS10X031□4U7	4.7	0.027	6.80
QS10X031□5U6	5.6	0.028	5.70
QS10X031□6U8	6.8	0.034	5.00
QS10X031□8U2	8.2	0.046	4.70
QS10X031□10U	10	0.049	4.00
QS10X031□12U	12	0.063	3.90
QS10X031□15U	15	0.076	3.60
QS10X031□18U	18	0.089	3.20
QS10X031□22U	22	0.097	2.90
QS10X031□33U	33	0.143	2.34
QS10X031□47U	47	0.215	1.85
QS10X031□56U	56	0.233	1.80
QS10X031□68U	68	0.297	1.62
QS10X031□82U	82	0.373	1.41
QS10X031□100U	100	0.410	1.35
QS10X031□120U	120	0.485	1.29
QS10X031□150U	150	0.600	1.18
QS10X031□180U	180	0.754	1.07
QS10X031□220U	220	0.877	0.94
QS10X031□330U	330	1.392	0.83
QS10X031□390U	390	1.653	0.78
QS10X031□470U	470	1.980	0.70
QS10X031□560U	560	2.230	0.66
QS10X031□680U	680	2.824	0.60
QS10X031□820U	820	3.400	0.54
QS10X031□1M	1000	3.860	0.49
QS10X031□1M2	1200	4.820	0.39
QS10X031□1M5	1500	5.67	0.36
QS10X031□1M8	1800	7.23	0.34
QS10X031□2M2	2200	8.9	0.31
QS10X031□3M3	3300	13.92	0.26
QS10X031□3M9	3900	15.87	0.23
QS10X031□4M7	4700	18	0.21
QS10X031□5M6	5600	22.02	0.19
QS10X031□6M8	6800	26.4	0.18
QS10X031□8M2	8200	37.42	0.16
QS10X031□10M	10000	42.63	0.14
QS10X04U□800N	0.8	0.0059	12

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## ELECTRICAL CHARACTERISTICS

TEST FREQUENCY 0.8uH ~ 8.2uH @ 100KHz / 0.25V      10uH ~ 10000uH @ 1KHz / 0.25V

Part Number	Inductance ( $\mu$ H)	RDC ( $\Omega$ ) max.	IDC ( $\Omega$ ) max.
QS10X04U□1U	1	0.008	10.3
QS10X04U□1U5	1.5	0.008	10
QS10X04U□2U2	2.2	0.01	8
QS10X04U□2U5	2.5	0.011	7.5
QS10X04U□3U3	3.3	0.012	6.6
QS10X04U□3U8	3.8	0.013	6
QS10X04U□4U7	4.7	0.022	5.7
QS10X04U□5U2	5.2	0.024	5.5
QS10X04U□5U6	5.6	0.024	5.15
QS10X04U□7U	7	0.027	4.8
QS10X04U□10U	10	0.035	4.4
QS10X04U□15U	15	0.05	3.6
QS10X04U□22U	22	0.073	2.9
QS10X04U□33U	33	0.093	2.3
QS10X04U□47U	47	0.128	2.1
QS10X04U□68U	68	0.213	1.5
QS10X04U□100U	100	0.304	1.35
QS10X04U□120U	120	0.34	1.18
QS10X04U□150U	150	0.506	1.15
QS10X04U□180U	180	0.53	0.98
QS10X04U□220U	220	0.756	0.92
QS10X04U□330U	330	1.09	0.7
QS10X05U□1U	1	0.009	10
QS10X05U□1U2	1.2	0.009	9
QS10X05U□2U2	2.2	0.01	8
QS10X05U□2U5	2.5	0.012	6.7
QS10X05U□3U8	3.8	0.014	6
QS10X05U□3U9	3.9	0.015	6.5
QS10X05U□4U7	4.7	0.018	5.7
QS10X05U□5U2	5.2	0.02	5.2
QS10X05U□6U8	6.8	0.023	4.9
QS10X05U□8U2	8.2	0.026	4.6
QS10X05U□10U	10	0.028	4.5
QS10X05U□12U	12	0.038	4
QS10X05U□15U	15	0.05	3.2
QS10X05U□18U	18	0.057	3.1
QS10X05U□22U	22	0.066	2.9
QS10X05U□27U	27	0.08	2.8
QS10X05U□33U	33	0.097	2.7
QS10X05U□39U	39	0.132	2.1
QS10X05U□47U	47	0.16	1.9
QS10X05U□56U	56	0.19	1.8
QS10X05U□68U	68	0.22	1.5
QS10X05U□82U	82	0.26	1.3
QS10X05U□100U	100	0.308	1.2
QS10X05U□120U	120	0.38	1.1
QS10X05U□150U	150	0.53	0.95
QS10X05U□180U	180	0.62	0.85
QS10X05U□220U	220	0.7	0.8
QS10X05U□270U	270	0.87	0.6
QS10X05U□330U	330	0.99	0.5

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Part Number	Inductance ( $\mu$ H)	RDC ( $\Omega$ ) max.	IDC (A) max.
QS10X06I □10U	10.00	0.025	4.00
QS10X06I □12U	12.00	0.027	3.50
QS10X06I □15U	15.00	0.030	3.30
QS10X06I □18U	18.00	0.034	3.00
QS10X06I □22U	22.00	0.036	2.80
QS10X06I □27U	27.00	0.051	2.30
QS10X06I □33U	33.00	0.057	2.10
QS10X06I □39U	39.00	0.068	2.00
QS10X06I □47U	47.00	0.075	1.80
QS10X06I □56U	56.00	0.110	1.70
QS10X06I □68U	68.00	0.120	1.50
QS10X06I □82U	82.00	0.140	1.40
QS10X06I □100U	100.00	0.160	1.30
QS10X06I □120U	120.00	0.170	1.10
QS10X06I □150U	150.00	0.230	1.00
QS10X06I □220U	220.00	0.400	0.80
QS10X06I □270U	270.00	0.460	0.75
QS10X06I □330U	330.00	0.510	0.68
QS10X06I □390U	390.00	0.690	0.65
QS10X06I □470U	470	0.770	0.58
QS10X06I □560U	560	0.860	0.54
QS10X06I □680U	680	1.200	0.48
QS10X06I □820U	820	1.340	0.43
QS10X06I □1M	1000	1.530	0.40
QS10X08I □1U2	1.2	0.007	9.80
QS10X08I □2U4	2.4	0.012	8.00
QS10X08I □3U5	3.5	0.014	7.50
QS10X08I □4U7	4.7	0.016	6.80
QS10X08I □6U1	6.1	0.018	6.60
QS10X08I □7U6	7.6	0.020	5.90
QS10X08I □10U	10	0.022	5.40
QS10X08I □12U	12	0.025	4.90

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Part Number	Inductance ( $\mu$ H)	RDC ( $\Omega$ ) max.	IDC (A) max.
QS10X08I□15U	15	0.027	4.50
QS10X08I□18U	18	0.040	2.08
QS10X08I□22U	22	0.044	3.60
QS10X08I□27U	27	0.046	3.40
QS10X08I□33U	33	0.065	3.00
QS10X08I□39U	39	0.073	2.75
QS10X08I□47U	47	0.100	2.50
QS10X08I□56U	56	0.111	2.35
QS10X08I□68U	68	0.140	2.10
QS10X08I□82U	82	0.160	1.95
QS10X08I□100U	100	0.220	1.70
QS10X08I□120U	120	0.250	1.60
QS10X08I□150U	150	0.280	1.42
QS10X08I□180U	180	0.350	1.30
QS10X08I□220U	220	0.390	1.16
QS10X08I□270U	270	0.560	1.06
QS10X08I□330U	330	0.640	0.95
QS10X08I□390U	390	0.700	0.88
QS10X08I□470U	470	0.980	0.79
QS10X08I□560U	560	1.070	0.73
QS10X08I□680U	680	1.460	0.67
QS10X08I□820U	820	1.640	0.60
QS10X08I□1M	1000	1.820	0.55
QS10X11I□1U6	1.6	0.008	9.50
QS10X11I□4U7	4.7	0.015	5.00