THROUGH-HOLE RADIAL UL TUBE POWER CHOKES FALCHB SERIES

0304,0406,0608,0806,0810,0912,1012,1016,1215,1415,1419,1618

FEATURES:

Wire-wound Construction
Polyolefin Shrink Tubing
Excellent heat resistance
Excellent environmental characteristics
High reliability

OPTIONS:

Packaging: Bulk is standard
Tolerance: 10% is standard
tighter tolerances available

COMMON APPLICATIONS:

Power Supplies
SCR and TRIAC Controls
RFI Suppression
Filters
Switching Regulators

ELECTRICAL CHARACTERISTICS

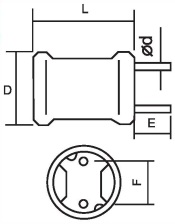
TECHNICAL INFORMATION

Part No. FALCHB-XXXX-	Inductance (μH)	IDC(A)								DCR(Ω)Max							
		0406	0608	0806	0810	0912	1012	1016	1415	0406	0608	0806	0810	0912	1012	1016	1415
100K	10	0.620	1.3		2.6	4.5	5.3	5.0	5.0	0.060	0.041		0.04	0.027	0.022	0.031	0.016
120K	12	0.620	1.3		2.6	4.1	4.9	5.0	5.0	0.072	0.046		0.04	0.031	0.023	0.036	0.017
150K	15	0.620	1.3		2.1	3.7	4.4	5.0	5.0	0.078	0.050		0.05	0.036	0.026	0.040	0.019
180K	18	0.490	1.0		2.0	3.4	4.0	5.0	5.0	0.108	0.062		0.05	0.049	0.033	0.041	0.021
220K	22	0.385	1.0	1.27	1.7	3.1	3.6	5.0	5.0	0.144	0.071	0.11	0.06	0.055	0.037	0.043	0.023
270K	27	0.300	1.0	1.14	1.6	2.8	3.3	5.0	5.0	0.168	0.073	0.14	0.06	0.062	0.048	0.046	0.027
330K	33	0.300	0.8	1.03	1.4	2.5	2.9	3.6	4.0	0.200	0.090	0.17	0.07	0.079	0.055	0.051	0.029
390K	39	0.300	0.8	0.95	1.4	2.3	2.7	3.6	4.0	0.220	0.102	0.19	0.08	0.087	0.073	0.054	0.031
470K	47	0.300	0.8	0.87	1.3	2.1	2.5	3.6	4.0	0.240	0.120	0.23	0.10	0.099	0.083	0.063	0.035
560K	56	0.300	0.62	0.80	1.2	1.9	2.3	3.0	4.0	0.265	0.162	0.26	0.11	0.13	0.092	0.075	0.041
680K	68	0.250	0.62	0.72	1.1	1.7	2.1	3.0	4.0	0.380	0.186	0.28	0.14	0.14	0.12	0.078	0.052
820K	82	0.250	0.49	0.66	1.0	1.6	1.9	2.6	4.0	0.445	0.240	0.39	0.16	0.16	0.14	0.088	0.056
101K	100	0.190	0.49	0.59	0.90	1.4	1.7	2.0	4.0	0.590	0.270	0.43	0.19	0.21	0.16	0.108	0.060
121K	120	0.190	0.49	0.54	0.82	1.3	1.5	2.0	3.3	0.640	0.310	0.54	0.22	0.24	0.20	0.127	0.078
151K	150	0.190	0.49	0.48	0.74	1.2	1.4	1.6	3.3	0.730	0.372	0.64	0.27	0.32	0.23	0.162	0.096
181K	180	0.190	0.385	0.44	0.71	1.1	1.3	1.3	3.3	0.850	0.456	0.74	0.31	0.35	0.31	0.128	0.147
221K	220	0.150	0.385	0.40	0.64	0.96	1.1	1.3	2.6	1.20	0.535	0.96	0.38	0.45	0.34	0.252	0.175
271K	270	0.150	0.385	0.36	0.57	0.87	1.0	1.3	2.6	1.32	0.625	1.12	0.53	0.61	0.40	0.290	0.192
331K	330	0.120	0.300	0.33	0.51	0.79	0.93	1.0	2.0	1.75	0.816	1.48	0.61	0.69	0.52	0.394	0.210
391K	390	0.120	0.250	0.30	0.48	0.72	0.86	1.0	2.0	1.95	1.0	1.66	0.69	0.78	0.65	0.416	0.240
471K	470	0.120	0.250	0.27	0.43	0.66	0.78	0.8	2.0	2.00	1.2	1.91	0.89	1.0	0.71	0.568	0.315
561K	560	0.095	0.250	0.25	0.40	0.60	0.71	0.8	1.60	2.90	1.3	2.31	1.01	1.2	1.0	0.650	0.360
681K	680	0.095	0.190	0.23	0.35	0.55	0.65	0.8	1.60	3.10	1.8	2.67	1.81	1.4	1.0	0.740	0.460
821K	820	0.076	0.190	0.21	0.32	0.50	0.59	0.62	1.30	4.30	2.1	3.10	1.57	1.8	1.3	1.00	0.540
102K	1000	0.060	0.150	0.19	0.30	0.45	0.53	0.55	1.30	5.50	3.0	4.45	1.84	2.1	1.7	1.20	0.660
122K	1200	0.060	0.150		0.27			0.49	1.30	6.30	3.3		2.10			1.50	0.780
152K	1500	0.060	0.150		0.23			0.49	1.0	7.20	3.5		2.80			1.70	0.990
182K	1800	0.046	0.120		0.21			0.385	1.0	9.60	5.7		3.21			1.80	1.20
222K	2200	0.046	0.095		0.19			0.385	0.80	11.5	6.2		4.21			2.40	1.32
272K	2700	0.046	0.095		0.17			0.385	0.80	13.0	7.6		4.94			2.80	1.80
332K	3300	0.036	0.095		0.15			0.300	0.62	17.0	8.5		6.16			3.70	2.10
392K	3900	0.036	0.076		0.14			0.250	0.62	19.0	10.3		6.84			5.00	2.70
472K	4700	0.030	0.076		0.13			0.250	0.49	24.0	11.3		7.89			5.60	3.15
562K	5600	0.030	0.076		0.12			0.250	0.49	29.0	13.0		11.5			6.30	3.60
682K	6800	0.024	0.060		0.11			0.190	0.49	42.0	17.0		13.2			8.40	4.30
822K	8200	0.018	0.060		0.10			0.190	0.385	48.0	20.0		15.2			9.60	5.15
103K	10000	0.018	0.046		0.089			0.190	0.385	55.0	27.0		22.0			10.50	2.85
123K	12000	0.018	0.046		0.073			0.150	0.385	64.0	31.0		25.0			14.05	8.30
153K	15000	0.015	0.036		0.068			0.120	0.30	82.0	45.0		29.0			20.5	10.20
183K	18000	0.015	0.036		0.066			0.095	0.25	96.0	51.0		38..1			27.5	11.70
223K	22000	0.015	0.030		0.059			0.095	0.25	110.0	60.0		44.9			31.0	13.00
273K	27000		0.030		0.052			0.095	0.25		66.0		55.7			35.5	18.40
333K	33000		0.030		0.048			0.095	0.19		100.0		64.2			40.0	21.00
393K	39000				0.042			0.095	0.19				74.2			51.0	27.00
473K	47000				0.038			0.095	0.15				96.4			56.0	35.00

Note:1. K=±10%,M=±20%

TECHNICAL INFORMATION

Testing:LCR Bridge measured @ 1KHz 0.1V HP 4284A
[Equivalent acceptable]
RDC: QuadTech 1880 Milliohmmeter
IDC Max: Lowers inductance by 10%
Operating temperature: -55℃ to +125℃
Shrink tube: Flame retardant UL type VW-1
Marking: Inductance and tolerance
Note:All specifications subject to change without notice.



Dimmension: mm

Part Number	D	L	E	F	ϕ
FALCHB0406	5.7	8.5	5/15	2	0.5
FALCHB0608	7.2	9.5	5/15	3	0.6
FALCHB0806	9.0	8.0	5/15	5	0.6
FALCHB0810	9.0	12.0	5/15	5	0.6
FALCHB0912	10.5	14	5/15	5	0.6
FALCHB1012	11.5	14	5/15	5	0.8
FALCHB1016	11.5	18	5/15	5.0	0.8
FALCHB1415	16.5	18	5/15	7.5	0.8

THROUGH-HOLE RADIAL POWER CHOKES FALCH SERIES

0605,0606,0805,0807,0809

FEATURES:

Wire-wound Structure
Excellent heat resistance
Excellent environmental characteristics
High reliability

OPTIONS:

Packaging: Bulk is standard
Tolerance: 10% is standard
tighter tolerances available

COMMON APPLICATIONS:

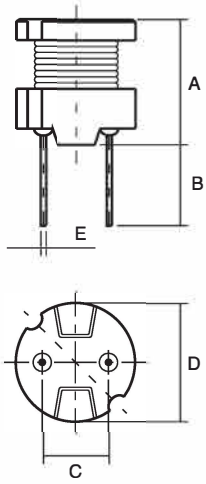
Power Supplies
SCR and TRIAC Controls
RFI Suppression
Filters
Switching Regulators

ELECTRICAL CHARACTERISTICS

PHYSICAL CHARACTERISTICS

Part number FALCH-xxxx-	Inductance (μH)	DCR(Ω)Max					IDC(A)				
		0605	0606	0805	0807	0809	0605	0606	0805	0807	0809
100M	10			0.07	0.05	0.04			2.50	2.90	2.60
120M	12			0.08	0.06	0.04			2.40	2.50	2.60
150M	15			0.09	0.07	0.05			2.10	2.20	2.10
180M	18			0.10	0.08	0.05			2.00	1.90	2.00
220M	22	0.18	0.11	0.12	0.09	0.06	0.90	1.27	1.70	1.80	1.70
270M	27	0.21	0.14	0.14	0.11	0.06	0.81	1.14	1.60	1.70	1.60
330M	33	0.27	0.17	0.17	0.13	0.07	0.74	1.03	1.40	1.50	1.40
390M	39	0.29	0.19	0.21	0.14	0.08	0.68	0.95	1.30	1.30	1.40
470M	47	0.34	0.23	0.24	0.15	010	0.62	0.87	1.20	1.30	1.30
560M	56	0.42	0.26	0.31	0.18	0.11	0.57	0.80	1.10	1.20	1.20
680M	68	0.48	0.28	0.34	0.20	0.14	0.51	0.72	1.00	1.10	1.10
820M	82	0.55	0.39	0.40	0.24	0.16	0.47	0.66	0.93	1.00	1.00
101K	100	0.68	0.43	0.52	0.28	0.19	0.42	0.59	0.81	0.89	0.90
121K	120	0.77	0.54	0.59	0.36	0.22	0.39	0.54	0.76	0.81	0.82
151K	150	0.95	0.64	0.71	0.42	0.27	0.35	0.48	0.67	0.72	0.74
181K	180	1.15	0.74	0.89	0.57	0.31	0.32	0.44	0.62	0.66	0.71
221K	220	1.30	0.96	1.04	0.63	0.38	0.29	0.40	0.54	0.57	0.64
271K	270	1.55	1.12	1.28	0.88	0.53	0.26	0.36	0.49	0.51	0.57
331K	330	2.18	1.48	1.47	1.05	0.61	0.23	0.33	0.44	0.46	0.51
391K	390	2.47	1.66	1.67	1.17	0.69	0.21	0.30	0.41	0.44	0.48
471K	470	2.92	1.91	1.95	1.34	0.89	0.20	0.28	0.38	0.41	0.43
561K	560	3.97	2.31	2.83	1.72	1.01	0.18	0.25	0.35	0.36	0.40
681K	680	4.57	2.67	3.25	1.96	1.18	0.16	0.23	0.32	0.33	0.35
821K	820	5.28	3.10	3.82	2.56	1.57	0.15	0.21	0.31	0.30	0.32
102K	1000	7.06	4.45	5.28	2.94	1.84	0.13	0.19	0.25	0.27	0.30
122K	1200			6.03	4.04	2.10			0.23	0.24	0.27
152K	1500			7.15	4.70	2.80			0.21	0.22	0.23
182K	1800			8.26	5.05	3.21			0.20	0.20	0.21
222K	2200			11.1	6.25	4.21			0.18	0.18	0.19
272K	2700			13.1	8.72	4.94			0.16	0.16	0.17
332K	3300			15.9	10.6	6.16			0.14	0.15	0.15
392K	3900			18.0	14.2	6.84			0.13	0.14	0.14
472K	4700			23.9	16.7	7.89			0.12	0.12	0.13
562K	5600			26.8	18.7	11.5			0.11	0.11	0.12
682K	6800			31.7	21.8	13.2			0.098	0.10	0.11
822K	8200			46.5	28.7	15.2			0.088	0.093	0.10
103K	10000			55.7	33.0	22.0			0.081	0.084	0.089
123K	12000					25.0					0.073
153K	15000					29.1					0.068
183K	18000					38.9					0.066
223K	22000					44.9					0.059
273K	27000					55.7					0.052
333K	33000					64.2					0.048
393K	39000					74.2					0.042
473K	47000					96.4					0.038

Note:1. K=±10%,M=±20%



Dimmension: mm

Part Number	A	B	C	D	E
FALCH0605	5.2Max	4.06	4.06	6.5Max	0.5
FALCH0606	6.5Max	4.06	4.06	6.5Max	0.5
FALCH0805	5.5Max	5.06	5.06	8.3Max	0.7
FALCH0807	7.5Max	5.06	5.06	8.3Max	0.7
FALCH0809	9.5Max	5.06	5.06	8.3Max	0.7

TECHNICAL INFORMATION

IDC Max:Determined when superimposed
Testing: [Equivalent acceptable]
Inductance:HP4284A 1kHz 0.1V
RDC:QuadTech 1880 Milliohmmeter
IDC Max : Lowers inductance by 10%
Operating temperature: -40℃ to +105℃
Storage Temperature: -40℃ to +105℃
Solder methods: Vapor Phase,Infrared Reflow
Resistance to soldering heat:260℃ for 10 seconds
Solvent resistance: Conforms to MIL-STD-202E
Marking:Inductance & Tolerance

Note:All specifications subject to change without notiece.

THROUGH-HOLE RADIAL POWER CHOKES FALCH4W SERIES

1006,1008,1010,1014

FEATURES:

Wire-wound Structure
Excellent heat resistance
Excellent environmental characteristics
High reliability

OPTIONS:

Packaging: Bulk is standard
Tolerance: 10% is standard
tighter tolerances available

COMMON APPLICATIONS:

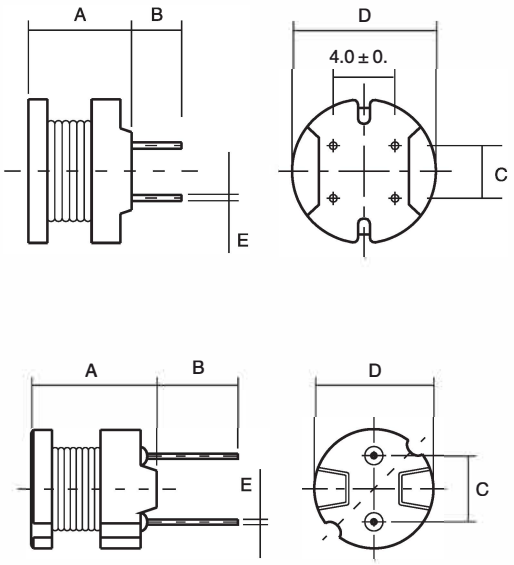
Power Supplies
SCR and TRIAC Controls
RFI Suppression
Filters
Switching Regulators

ELECTRICAL CHARACTERISTICS

Part number FALCHB-xxxx-	Inductance (μH)	DCR(Ω)Max				IDC(A)			
		1006	1008	1010	1014	1006	1008	1010	1014
6R3M	6.3				0.260				4.30
7R5M	7.5				0.290				4.20
100M	10	0.040	0.027	0.022	0.033	3.60	4.50	5.30	4.00
120M	12	0.044	0.031	0.023	0.035	3.30	4.10	4.90	3.90
150M	15	0.058	0.035	0.026	0.039	2.90	3.70	4.40	3.70
180M	18	0.064	0.049	0.033	0.047	2.70	3.40	4.00	3.50
220M	22	0.088	0.055	0.037	0.051	2.40	3.10	3.60	3.30
270M	27	0.100	0.062	0.048	0.057	2.20	2.80	3.30	3.10
330M	33	0.110	0.079	0.055	0.064	2.00	2.50	2.90	2.90
390M	39	0.140	0.087	0.073	0.074	1.80	2.30	2.70	2.70
470M	47	0.160	0.099	0.083	0.083	1.70	2.10	2.50	2.50
560M	56	0.190	0.130	0.092	0.104	1.50	1.90	2.30	2.30
680M	68	0.220	0.140	0.120	0.117	1.40	1.70	2.10	2.10
820M	82	0.290	0.160	0.140	0.130	1.30	1.60	1.90	1.90
101K	100	0.320	0.210	0.160	0.143	1.30	1.40	1.70	1.70
121K	120	0.380	0.240	0.200	0.195	1.20	1.30	1.50	1.50
151K	150	0.500	0.320	0.230	0.221	1.00	1.20	1.40	1.40
181K	180	0.560	0.350	0.310	0.260	0.84	1.10	1.30	1.30
221K	220	0.780	0.450	0.340	0.350	0.76	0.96	1.10	1.20
271K	270	0.920	0.610	0.400	0.390	0.69	0.87	1.00	1.10
331K	330	1.10	0.690	0.520	0.520	0.62	0.79	0.93	1.00
391K	390	1.30	0.780	0.650	0.570	0.57	0.72	0.86	0.92
471K	470	1.50	1.00	0.710	0.650	0.52	0.66	0.78	0.84
561K	560	1.90	1.20	1.00	0.790	0.48	0.60	0.71	0.75
681K	680	2.20	1.40	1.10	0.960	0.43	0.55	0.65	0.69
821K	820	2.60	1.80	1.30	1.22	0.40	0.50	0.59	0.62
102K	1000	3.20	2.10	1.70	1.60	0.36	0.45	0.53	0.52
122K	1200				2.20				0.46
152K	1500				2.50				0.41
182K	1800				2.90				0.36
222K	2200				3.20				0.32
272K	2700				3.70				0.29
332K	3300				5.00				0.27
392K	3900				5.60				0.25
472K	4700				7.40				0.23
562K	5600				8.20				0.21
682K	6800				11.9				0.19
822K	8200				14.0				0.17
103K	10000				16.0				0.16
123K	12000				21.0				0.15
153K	15000				24.0				0.14
183K	18000				27.0				0.13
223K	22000				34.0				0.12
273K	27000				39.0				0.11
333K	33000				51.0				0.10
393K	39000				58.0				0.09

Note:1. K=±10%,M=±20%

PHYSICAL CHARACTERISTICS



Dimension: mm

Part Number	A	B	C	D	E
FALCH4W1006	6.5Max	3.5±1.5	5.0±0.3	10.5Max	0.7
FALCH4W1008	8.5Max	3.5±1.5	5.0±0.3	10.5Max	0.7
FALCH4W1010	10.5Max	3.5±1.5	5.0±0.3	10.5Max	0.7
FALCH 1014	14.4Max	5.0±1.5	5.0±0.3	10.5Max	0.7
FALCH4W1014	14.4Max	5.0±1.5	5.0±0.3	10.5Max	0.7

TECHNICAL INFORMATION

Testing:LCR Bridge measured @ 1KHz
[Equivalent acceptable]
RDC: QuadTech 1880 Milliohmmeter
IDC Max: Lowers inductance by 10%
Operating temperature: -55℃ to +125℃
Marking: Inductance and tolerance

Note:All specifications subject to change without notice.