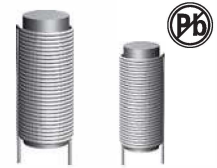


THROUGH-HOLE RADIAL ROD CORE POWER INDUCTORS FARCH-110A&B SERIES



FEATURES:

High Saturation Material
Polyolefin Shrink Tubing
Low DC Resistance
High Reliability Low cost

OPTIONS:

Bulk Packaging is standard
Custom Design Available

COMMON APPLICATIONS:

Switching Regulators
RFI Suppression Filters
SCR and TRIAC Controls
Automotive Systems

STANDARD SPECIFICATIONS

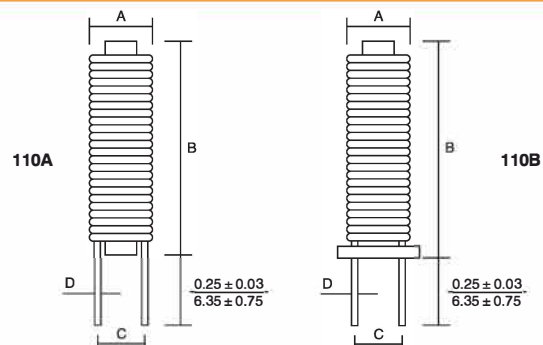
Part Number FARCH-110A&B	L (μ H)	IDC (A)	RDC (Ω)Max	A Max	B Max	C $\pm 0.015/0.3$	D $\pm 0.004/0.1$
FARCH-110A-1R0L-25	1	25	0.002	0.60/15.2	0.68/17.3	0.42/10.7	0.067/1.70
FARCH-110A-1R0L-10	1	10	0.002	0.50/12.7	0.75/19.1	0.42/10.7	0.055/1.40
FARCH-110A-3R3L-10	3.3	10	0.005	0.5/12.7	1.0/25.4	0.42/10.7	0.055/1.40
FARCH-110A-4R7L-03	4.7	3	0.021	0.51/13.0	0.75/19.1	0.42/10.7	0.035/0.90
FARCH-110A-4R7L-05	4.7	5	0.012	0.50/12.7	0.75/19.1	0.42/10.7	0.043/1.10
FARCH-110A-4R7L-10	4.7	10	0.012	0.50/12.7	1.0/25.4	0.42/10.7	0.055/1.40
FARCH-110A-4R7L-20	4.7	20	0.004	0.53/13.5	1.2/30.5	0.42/10.7	0.067/1.70
FARCH-110A-100K-03	10	3	0.023	0.50/12.7	0.75/19.1	0.42/10.7	0.035/0.90
FARCH-110A-100K-05	10	5	0.017	0.50/12.7	0.75/19.1	0.42/10.7	0.043/1.10
FARCH-110A-100K-10	10	10	0.015	0.52/13.2	1.0/25.4	0.42/10.7	0.055/1.40
FARCH-110A-100K-20	10	20	0.006	0.75/19.1	1.8/45.7	0.60/15.2	0.075/1.90
FARCH-110A-150K-03	15	3	0.025	0.50/12.7	1.0/25.4	0.42/10.7	0.035/0.90
FARCH-110A-150K-10	15	10	0.020	0.52/13.2	1.0/25.4	0.42/10.7	0.055/1.40
FARCH-110A-220K-03	22	3	0.035	0.50/12.7	1.0/25.4	0.42/10.7	0.035/0.90
FARCH-110A-220K-05	22	5	0.023	0.50/12.7	1.0/25.4	0.42/10.7	0.043/1.10
FARCH-110A-220K-10	22	10	0.015	0.66/16.8	1.3/33.0	0.42/10.7	0.059/1.50
FARCH-110A-270K-05	27	5	0.024	0.50/12.7	1.0/25.4	0.49/12.5	0.043/1.10
FARCH-110A-330K-12	33	12	0.017	0.70/17.8	1.3/33.0	0.55/14.0	0.059/1.50
FARCH-110A-470K-03	47	3	0.050	0.55/14.0	1.0/25.4	0.42/10.7	0.035/0.90
FARCH-110A-470K-05	47	5	0.035	0.65/16.5	1.1/28.0	0.70/17.8	0.043/1.10
FARCH-110A-470K-10	47	10	0.022	0.85/21.8	1.3/33.0	0.70/17.8	0.059/1.50
FARCH-110A-820K-03	82	3	0.110	0.50/12.7	0.65/16.5	0.375/9.5	0.028/0.70
FARCH-110A-101K-01	100	1	0.190	0.40/10.2	0.90/22.9	0.30/7.6	0.020/0.50
FARCH-110A-101K-03	100	3	0.072	0.55/14.0	1.2/30.5	0.70/17.8	0.035/0.90
FARCH-110A-101K-05	100	5	0.055	0.65/16.5	1.3/33.0	0.70/17.8	0.043/1.10
FARCH-110A-151K-03	150	3	0.140	0.60/15.2	1.2/30.5	0.43/10.9	0.028/0.70
FARCH-110A-151K-05	150	5	0.065	0.65/16.5	1.3/33.0	0.70/17.8	0.043/1.10
FARCH-110A-181K-05	180	5	0.110	0.65/16.5	1.3/33.0	0.70/17.8	0.043/1.10
FARCH-110A-221K-03	220	3	0.210	0.55/14.0	1.2/30.5	0.42/10.7	0.025/0.63
FARCH-110A-271K-04	270	4	0.250	0.95/24	0.72/18.3	0.71/18	0.030/0.75
FARCH-110A-271K-10	270	10	0.160	1.1/28	1.0/25.4	0.72/18.3	0.039/1.00
FARCH-110A-391K-03	390	3	0.250	1.1/28	1.0/25.4	0.72/18.3	0.035/0.90
FARCH-110A-391K-05	390	5	0.190	1.1/28	1.0/25.4	0.72/18.3	0.039/1.00

Note:1. K=±10%,M=±20%,N=±30%

TECHNICAL INFORMATION

Testing: [Equivalent acceptable] Inductance: HP4284A
RDC: QuadTech 1880 Milliohm meter
DC current is decreased 10% against its initial value
Operating temperature: -40°C to +105°C
Storage Temperature: -40°C to +105°C
Solder methods: Vapor Phase, Infrared Reflow
Resistance to soldering heat: 260°C for 10 seconds
Solvent resistance: Conforms to MIL-STD-202E
Marking: Inductance & Tolerance
Note: All specifications subject to change without notice.

PHYSICAL CHARACTERISTICS



All Dimension in inches/mm

THROUGH-HOLE HIGH CURRENT RADIAL ROD CHOKES FARC-SERIES 0205,0310,0415,0520,0630



FEATURES:

Low cost design general Purpose inductor
High Saturation current
Easy construction that uses Ferrite rod cores

OPTIONS:

Packaging: Tape & Reel is standard (Qty: 2000 pcs)
Bulk packaging available for smaller quantities
Tolerance: 10% and 5% is standard, tighter tolerances available

COMMON APPLICATIONS:

Switching Regulators
Automotive Systems
Power Amplifiers
Power Supplies
EMI/RFI suppression
DC line Filters

PHYSICAL CHARACTERISTICS

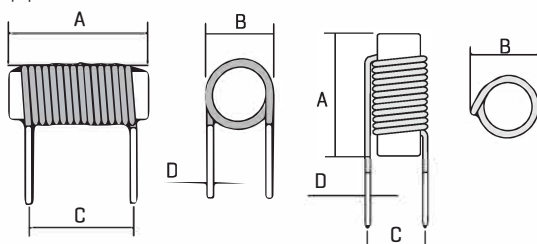
Part Number	L μ H	DCR Ω Max	IDC A Max	SRF [MHz] Min	Wire size [mm]	Turns
FARC0205-1R0K	1.0	0.040	0.56	200	0.30	11.5
FARC0205-1R2K	1.2	0.040	0.56	180	0.30	12.5
FARC0310-1R8K	1.8	0.026	1.90	160	0.55	11.5
FARC0310-2R2K	2.2	0.028	1.57	150	0.50	13.5
FARC0310-2R7K	2.7	0.030	1.57	140	0.50	15.5
FARC0310-3R3K	3.3	0.035	1.27	135	0.45	17.5
FARC0310-3R9K	3.9	0.050	1.00	110	0.40	18.5
FARC0310-4R7K	4.7	0.070	0.76	90	0.35	19.5
FARC0415-4R7K	4.7	0.024	2.26	90	0.60	17.5
FARC0415-5R6K	5.6	0.030	1.90	80	0.55	18.5
FARC0415-6R8K	6.8	0.040	1.57	80	0.50	18.5
FARC0415-8R2K	8.2	0.060	1.27	80	0.45	21.5
FARC0415-100K	10	0.080	1.00	70	0.40	24.5
FARC0520-100K	10	0.040	2.65	60	0.65	22.5
FARC0520-120K	12	0.044	2.26	55	0.60	23.5
FARC0520-150K	15	0.060	1.90	45	0.55	27.5
FARC0520-180K	18	0.080	1.57	40	0.50	29.5
FARC0520-220K	22	0.100	1.27	38	0.45	32.5
FARC0520-270K	27	0.150	1.00	36	0.40	36.5
FARC0630-4R7K	4.7	0.005	16.08	85	1.60	12.5
FARC0630-5R6K	5.6	0.005	16.08	80	1.60	14.5
FARC0630-6R8K	6.8	0.008	10.61	75	1.30	15.5
FARC0630-8R2K	8.2	0.009	9.04	67	1.20	16.5
FARC0630-100K	10	0.010	9.04	64	1.20	19.5
FARC0630-120K	12	0.018	6.28	57	1.00	20.5
FARC0630-150K	15	0.023	5.08	53	0.90	23.5
FARC0630-180K	18	0.030	4.02	49	0.80	24.5
FARC0630-220K	22	0.045	3.07	44	0.70	27.5
FARC0630-270K	27	0.050	3.07	42	0.70	31.5
FARC0630-330K	33	0.060	2.65	36	0.65	35.5
FARC0630-390K	39	0.080	2.26	34	0.60	40.5
FARC0630-470K	47	0.110	1.90	32	0.55	44.5
FARC0630-560K	56	0.140	1.57	30	0.50	46.5

Note: 1. K=±10%, M=±20%

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS:

Inductance measured with zero D.C current
Increment current reduces inductance by ≤10%
Operating temperature: -20°C ~ +80°C
Test Equipment

DIMENSIONS in mm



Part number	A	B	C	D
FARC0205	6.00Max	3.50Max	TBD	TBD
FARC0310	11.00Max	5.00Max	TBD	TBD
FARC0415	16.00Max	5.50Max	TBD	TBD
FARC0520	21.00Max	7.00Max	TBD	TBD
FARC0630	31.00Max	9.50Max	TBD	TBD

Note: All specifications subject to change without notice.

THROUGH-HOLE AXIAL HASH CHOKES FACHA SERIES 01,02,03,04,05



FEATURES:

Wire-wound Construction
Narrow Design for Densely
Populated Boards
Wide Range of Inductance
Values
Excellent Q Values
High Reliability

OPTIONS:

Packaging is Standard
Tolerance:20%is Standard
Tighter Tolerances
Available
UL approved Polyolefi
shrink tubing

COMMON APPLICATIONS:

Power supplies
Amplifiers
Oscilloscopes
Medical Equipment
Converters
Analyzers

PHYSICAL CHARACTERISTICS

Part Number	L μ H	Tol %	DCR ohm Max	IDC Max A	Coil Diameter Inches max	Lead Wire Size	Lead Length in.Inches	Body Length Max Inches	Refer to Figure #	Core Material
FACHA-01-3R3M	3.35	± 2	0.01	20	.60	12AWG	1.25	1.25	A	IRON
FACHA-01-4R9M	4.9	± 2	.016	15	.60	14AWG	1.25	1.25	A	IRON
FACHA-01-8R8M	8.8	± 2	.021	10	.56	16AWG	1.25	1.25	A	IRON
FACHA-02-4R0M	4.0	± 2	.012	8.0	.38	20AWG	1.25	1.25	B	FERRITE
FACHA-03-400M	40	± 2	.082	3.0	.31	20AWG	1.25	1.25	C	FERRITE
FACHA-04-680M	68	± 2	.054	5.0	.56	20AWG	1.25	1.25	D	FERRITE
FACHA-05-101M	100	± 2	.216	2.0	.38	20AWG	1.25	1.25	E	FERRITE
FACHA-04-125M	125	± 2	.080	3.5	.50	20AWG	1.25	1.25	D	FERRITE
FACHA-04-251M	250	± 2	.170	2.5	.44	20AWG	1.25	1.25	D	FERRITE
FACHA-04-501M	500	± 2	.260	2.0	.44	20AWG	1.25	1.25	D	FERRITE
FACHA-04-102M	1000	± 2	.550	1.0	.50	20AWG	1.25	1.25	D	FERRITE

Note:1. K= $\pm 10\%$,M= $\pm 20\%$

TECHNICAL INFORMATION:

Testing: [Equivalent acceptable]
HP4284A @1kHz 0.1V
RDC:QuadTech 1880 Milliohm meter
IDC Max:Lowes inductance by 10%
Operating temperature: -55°C to +105°C
Storage Temperature: -40°C to +85°C
Optional Shrink tube: Flame retardant UL type VW-1
Marking: Inductance and Tolerance on optional tubing only
Note:All specifications subject to change without notice.

PHYSICAL CHARACTERISTICS:

