

THROUGH-HOLE RADIAL HIGH CURRENT POWER CHOKES

FEATURES:

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

COMMON APPLICATIONS:

- Switching Regulators
- RFI Suppression Filters
- SCR and TRIAC Controls
- Automotive Systems



ELECTRICAL CHARACTERISTICS:

Part Number	L (μ H) @1KHz	DCR (Ω Max)	IDC (A Max)	Dim(mm) C Approx.	Dim(mm) D Nom.
FRD01-1R0M	1.0	0.003	9	13.97	1.30
FRD01-1R2M	1.2	0.003	9	13.97	1.30
FRD01-1R5M	1.5	0.004	9	13.97	1.30
FRD01-1R8M	1.8	0.004	9	13.97	1.30
FRD01-2R2M	2.2	0.005	9	13.97	1.30
FRD01-2R7M	2.7	0.005	9	13.97	1.30
FRD01-3R3M	3.3	0.005	9	13.97	1.30
FRD01-3R9M	3.9	0.006	9	13.97	1.30
FRD01-4R7M	4.7	0.007	9	13.97	1.30
FRD01-5R6M	5.6	0.007	9	13.97	1.30
FRD01-6R8M	6.8	0.008	9	13.97	1.30
FRD01-8R2M	8.2	0.009	9	13.97	1.30
FRD01-100K	10	0.010	9	13.97	1.30
FRD01-120K	12	0.011	9	13.97	1.30
FRD01-150K	15	0.015	7.2	13.46	1.14
FRD01-180K	18	0.016	7.2	13.46	1.14
FRD01-220K	22	0.020	5.5	13.46	1.14
FRD01-270K	27	0.030	4.5	13.46	1.01
FRD01-330K	33	0.040	4.0	13.46	1.01
FRD01-390K	39	0.046	4.0	13.46	1.01
FRD01-470K	47	0.062	2.8	13.46	0.91
FRD01-560K	56	0.069	2.8	13.46	0.91
FRD01-680K	68	0.077	2.8	12.70	0.81
FRD01-820K	82	0.083	2.8	12.70	0.81
FRD01-101K	100	0.095	2.8	12.70	0.81
FRD01-121K	120	0.127	2.0	12.70	0.73
FRD01-151K	150	0.181	1.6	12.70	0.73
FRD01-181K	180	0.217	1.6	12.70	0.63
FRD01-221K	220	0.240	1.6	12.70	0.63
FRD01-271K	270	0.300	1.6	11.94	0.51
FRD01-331K	330	0.336	1.3	11.94	0.51
FRD01-391K	390	0.460	1.0	11.94	0.51
FRD01-471K	470	0.636	0.8	11.94	0.51
FRD01-561K	560	0.696	0.8	11.94	0.51

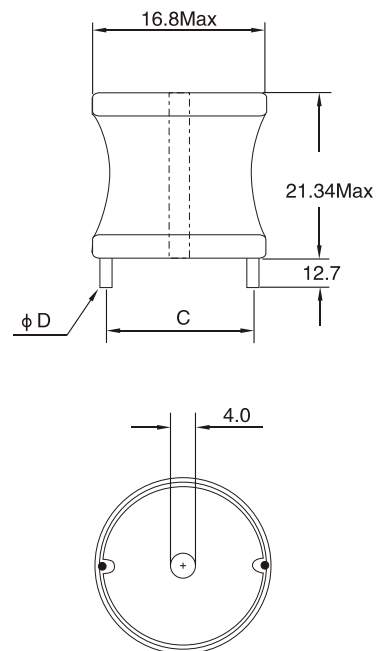
Note:1. K= $\pm 10\%$, M= $\pm 20\%$

TECHNICAL INFORMATION:

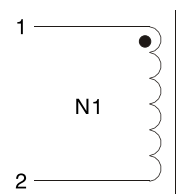
- Inductance Testing: ,HP4284A,HP4285A or equivalent
- RDC:QuadTech 1880 Milliohmeter
- Q- HP4342A
- SRF-HP4191A or HP4194A
- Rated Current L value drop10%typ.at I_{oc} against its initial value
- Temperature rise 40°CMax Reference ambient temperature
- Solderability: 75% of the lead wire shall be covered
- Soldering Methods: Wave,Reflow
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -55°C to +125°C
- Terminal bending strength:24.5N Min
- Moisture resistance: $\Delta L/L \leq \pm 10\%$ $\Delta Q/Q \leq \pm 25\%$

CHARACTERISTICS:

DIMENSIONS IN:mm



ELECTRONICAL SCHEMATIC



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- RFI Suppression Filters
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- Automotive Systems



ELECTRICAL CHARACTERISTICS:

Part Number	L (μ H) @1KHz	DCR (Ω Max)	IDC (A Max)	Dim(mm) C Approx.	Dim(mm) D Nom.
FRD02-1R0M	1.0	0.003	11.4	16.00	1.83
FRD02-1R2M	1.2	0.003	11.4	16.00	1.83
FRD02-1R5M	1.5	0.003	11.4	16.00	1.83
FRD02-1R8M	1.8	0.003	11.4	16.00	1.83
FRD02-2R2M	2.2	0.004	11.4	16.00	1.83
FRD02-2R7M	2.7	0.005	11.4	16.00	1.62
FRD02-3R3M	3.3	0.005	11.4	16.00	1.62
FRD02-3R9M	3.9	0.005	11.4	16.00	1.62
FRD02-4R7M	4.7	0.005	11.4	16.00	1.62
FRD02-5R6M	5.6	0.006	11.4	16.00	1.62
FRD02-6R8M	6.8	0.007	11.4	16.00	1.62
FRD02-8R2M	8.2	0.007	11.4	16.00	1.62
FRD02-100K	10	0.009	11.4	16.00	1.62
FRD02-120K	12	0.009	11.4	16.00	1.45
FRD02-150K	15	0.013	9.0	16.00	1.45
FRD02-180K	18	0.018	7.2	16.00	1.30
FRD02-220K	22	0.019	7.2	16.00	1.30
FRD02-270K	27	0.026	5.5	16.00	1.30
FRD02-330K	33	0.029	5.5	15.24	1.14
FRD02-390K	39	0.030	5.5	15.24	1.14
FRD02-470K	47	0.035	5.5	15.74	1.14
FRD02-560K	56	0.039	5.5	15.74	1.01
FRD02-680K	68	0.053	4.8	15.74	1.01
FRD02-820K	82	0.060	4.8	15.74	1.01
FRD02-101K	100	0.080	4.0	15.74	0.91
FRD02-121K	120	0.090	4.0	15.74	0.91
FRD02-151K	150	0.098	4.0	15.74	0.81
FRD02-181K	180	0.110	4.0	15.74	0.81
FRD02-221K	220	0.150	2.8	15.74	0.81
FRD02-271K	270	0.213	2.0	15.24	0.73
FRD02-331K	330	0.305	1.6	15.24	0.73
FRD02-391K	390	0.320	1.6	15.24	0.64
FRD02-471K	470	0.355	1.6	15.24	0.64
FRD02-561K	560	0.388	1.6	15.24	0.64
FRD02-681K	680	0.430	1.6	15.24	0.64
FRD02-821K	820	0.590	1.3	15.24	0.58
FRD02-102K	1000	0.818	1.0	15.24	0.51
FRD02-122K	1200	1.14	0.8	15.24	0.51
FRD02-152K	1500	1.26	0.8	15.24	0.51
FRD02-182K	1800	1.39	0.8	15.24	0.45
FRD02-222K	2200	1.54	0.8	15.24	0.45

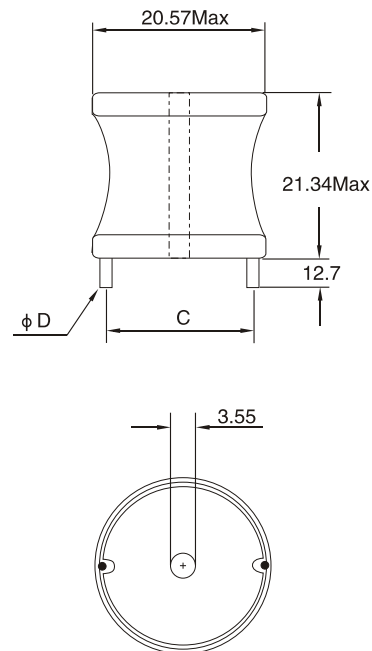
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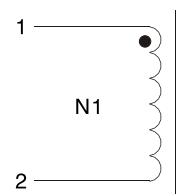
- Inductance Testing: ,HP4284A,HP4285A or equivalent
- RDC:QuadTech 1880 Milliohmometer
- Q- HP4342A
- SRF-HP4191A or HP4194A
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- Solderability: 75% of the lead wire shall be covered
- Soldering Methods: Wave,Reflow
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- Storage Temperature: -55°C to +125°C
- Terminal bending strength:24.5N Min
- Moisture resistance: $\Delta L/L \leq \pm 10\%$ $\Delta Q/Q \leq \pm 25\%$

CHARACTERISTICS:

DIMENSIONS IN:mm



ELECTRONICAL SCHEMATIC



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ELECTRICAL CHARACTERISTICS:

Part Number	L (μ H) @1KHz	DCR (Ω Max)	IDC (A Max)	Dim(mm) C Approx.	Dim(mm) D Nom.
FRD03-1R0M	1.0	0.003	21	20.32	2.05
FRD03-1R2M	1.2	0.003	21	20.32	2.05
FRD03-1R5M	1.5	0.003	21	20.32	2.05
FRD03-1R8M	1.8	0.003	21	20.32	2.05
FRD03-2R2M	2.2	0.003	21	20.32	2.05
FRD03-2R7M	2.7	0.003	21	20.32	2.05
FRD03-3R3M	3.3	0.003	21	20.32	2.05
FRD03-3R9M	3.9	0.003	21	20.32	2.05
FRD03-4R7M	4.7	0.003	21	20.32	2.05
FRD03-5R6M	5.6	0.003	21	20.82	2.05
FRD03-6R8M	6.8	0.004	21	20.82	2.05
FRD03-8R2M	8.2	0.004	21	20.82	2.05
FRD03-100K	10	0.006	17	20.82	2.05
FRD03-120K	12	0.008	13.5	20.32	1.82
FRD03-150K	15	0.009	13.5	20.32	1.82
FRD03-180K	18	0.010	13.5	20.32	1.82
FRD03-220K	22	0.011	13.5	20.06	1.62
FRD03-270K	27	0.012	13.5	20.06	1.62
FRD03-330K	33	0.017	13.5	20.06	1.62
FRD03-390K	39	0.022	11.4	20.06	1.44
FRD03-470K	47	0.024	9.0	20.06	1.44
FRD03-560K	56	0.026	9.0	20.06	1.44
FRD03-680K	68	0.029	9.0	20.06	1.44
FRD03-820K	82	0.032	9.0	20.06	1.37
FRD03-101K	100	0.034	9.0	20.06	1.37
FRD03-121K	120	0.046	7.2	20.06	1.37
FRD03-151K	150	0.064	5.5	19.56	1.14
FRD03-181K	180	0.072	5.5	19.56	1.14
FRD03-221K	220	0.080	5.5	19.56	1.01
FRD03-271K	270	0.110	4.5	19.56	1.01
FRD03-331K	330	0.122	4.5	19.56	1.01
FRD03-391K	390	0.169	4.0	19.56	0.91
FRD03-471K	470	0.187	4.0	19.56	0.91
FRD03-561K	560	0.205	4.0	19.56	0.81
FRD03-681K	680	0.256	2.8	19.56	0.81
FRD03-821K	820	0.288	2.8	19.56	0.81
FRD03-102K	1000	0.426	2.0	19.05	0.73
FRD03-122K	1200	0.426	2.0	19.05	0.73
FRD03-152K	1500	0.518	2.0	19.05	0.64
FRD03-182K	1800	0.705	1.6	19.05	0.64
FRD03-222K	2200	1.02	1.3	19.05	0.64
FRD03-272K	2700	1.14	1.3	19.05	0.58
FRD03-332K	3300	1.27	1.3	19.05	0.51
FRD03-392K	3900	1.67	1.0	19.05	0.51
FRD03-472K	4700	1.86	1.0	19.05	0.51

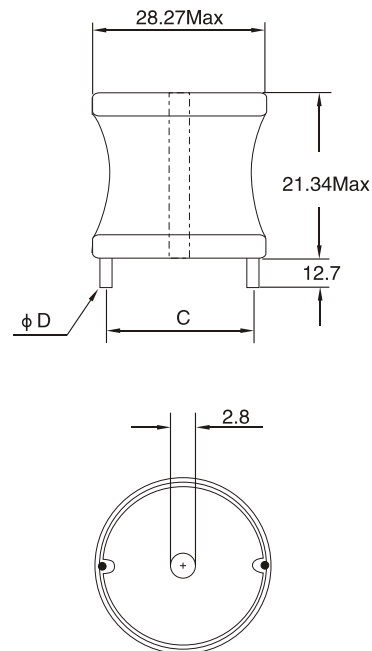
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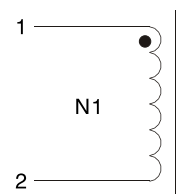
- Inductance Testing: ,HP4284A,HP4285A or equivalent
- RDC:QuadTech 1880 Milliohmeter
- Q- HP4342A
- SRF-HP4191A or HP4194A
- Rated Current L value drop10%typ.at I_{oc} against its initial value
- Temperature rise 40°CMax Reference ambient temperature
- Solderability: 75% of the lead wire shall be covered
- Soldering Methods: Wave,Reflow
- Operating Temperature:-25°C to +85°C
- Storage Temperature: -55°C to +125°C
- Terminal bending strength:24.5N Min
- Moisture resistance: $\Delta L/L \leq \pm 10\%$ $\Delta Q/Q \leq \pm 25\%$

CHARACTERISTICS:

DIMENSIONS IN:mm



ELECTRONICAL SCHEMATIC



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ELECTRICAL CHARACTERISTICS:

Part Number	L (μ H) @1KHz	DCR (Ω Max)	IDC (A Max)	Dim(mm) C Approx.	Dim(mm) D Nom.
FRD04-1R8M	1.8	0.002	27	28.19	2.05
FRD04-2R2M	2.2	0.002	27	28.19	2.05
FRD04-2R7M	2.7	0.003	27	28.19	2.05
FRD04-3R3M	3.3	0.003	27	28.19	2.05
FRD04-3R9M	3.9	0.003	27	28.19	2.05
FRD04-4R7M	4.7	0.003	27	28.19	2.05
FRD04-5R6M	5.6	0.004	27	28.19	2.05
FRD04-6R8M	6.8	0.004	27	29.21	2.05
FRD04-8R2M	8.2	0.004	27	29.21	2.05
FRD04-100K	10	0.005	27	29.21	2.05
FRD04-120K	12	0.005	27	29.21	2.05
FRD04-150K	15	0.006	27	29.21	2.05
FRD04-180K	18	0.008	27	29.21	2.05
FRD04-220K	22	0.009	21	29.21	2.05
FRD04-270K	27	0.010	21	29.21	2.05
FRD04-330K	33	0.011	21	29.21	1.82
FRD04-390K	39	0.012	21	29.21	1.82
FRD04-470K	47	0.018	14.4	29.21	1.82
FRD04-560K	56	0.019	14.4	29.21	1.62
FRD04-680K	68	0.021	14.4	29.21	1.62
FRD04-820K	82	0.023	14.4	29.21	1.62
FRD04-101K	100	0.025	14.4	29.21	1.62
FRD04-121K	120	0.028	14.4	29.21	1.44
FRD04-151K	150	0.040	14.4	29.21	1.44
FRD04-181K	180	0.045	14.4	29.21	1.44
FRD04-221K	220	0.050	14.4	29.21	1.37
FRD04-271K	270	0.056	14.4	29.21	1.37
FRD04-331K	330	0.074	14.4	29.21	1.37
FRD04-391K	390	0.082	9.0	29.21	1.14
FRD04-471K	470	0.114	7.2	29.21	1.14
FRD04-561K	560	0.125	7.2	29.21	1.01
FRD04-681K	680	0.139	7.2	29.21	1.01
FRD04-821K	820	0.154	7.2	29.21	1.01
FRD04-102K	1000	0.216	5.5	29.21	1.01
FRD04-122K	1200	0.232	5.5	28.95	0.91
FRD04-152K	1500	0.324	4.5	28.95	0.91
FRD04-182K	1800	0.360	4.5	28.95	0.91
FRD04-222K	2200	0.494	4.0	27.94	0.81
FRD04-272K	2700	0.555	4.0	28.44	0.81
FRD04-332K	3300	0.773	2.8	27.94	0.73
FRD04-392K	3900	0.845	2.8	27.94	0.73
FRD04-472K	4700	1.14	2.0	28.44	0.73
FRD04-562K	5600	1.60	2.0	27.68	0.64
FRD04-682K	6800	1.76	1.6	28.44	0.64
FRD04-822K	8200	1.95	1.6	27.68	0.58
FRD04-103K	10000	2.76	1.3	28.19	0.58
FRD04-123K	12000	3.04	1.3	27.43	0.51
FRD04-153K	15000	3.39	1.3	27.94	0.51

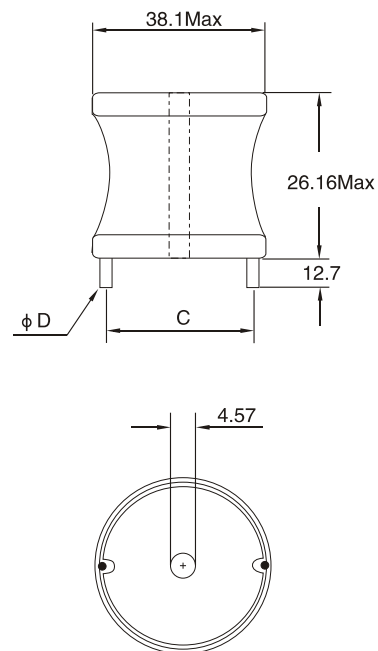
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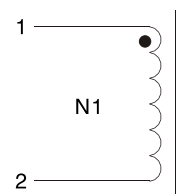
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