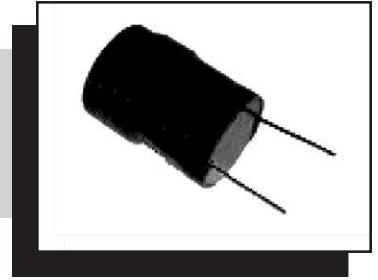


# THROUGH-HOLE DRUM CORE POWER INDUCTORS

## AIRD-01 SERIES



### STANDARD SPECIFICATIONS

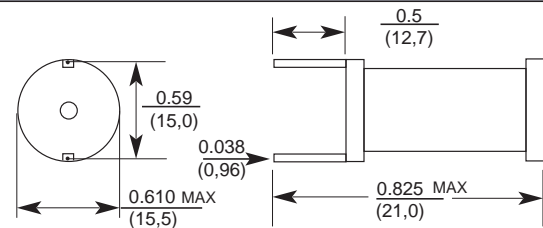
Part Number <sup>2</sup>	L <sup>1,2</sup> (mH)	DCR mW (MAX)	ISAT <sup>3</sup> A (MAX)	IAC A (MAX)
AIRD-01-1R0K	1.0	3	87	9.0
AIRD-01-1R2K	1.2	3	68	9.0
AIRD-01-1R5K	1.5	4	56	9.0
AIRD-01-1R8K	1.8	4	56	9.0
AIRD-01-2R2K	2.2	5	47	9.0
AIRD-01-2R7K	2.7	5	47	9.0
AIRD-01-3R3K	3.3	5	40	9.0
AIRD-01-3R9K	3.9	6	36	9.0
AIRD-01-4R7K	4.7	7	32	9.0
AIRD-01-5R6K	5.6	7	29	9.0
AIRD-01-6R8K	6.8	8	26	9.0
AIRD-01-8R2K	8.2	9	24	9.0
AIRD-01-100K	10	10	21	9.0
AIRD-01-120K	12	11	19	9.0
AIRD-01-150K	15	15	17	7.2
AIRD-01-180K	18	16	16	7.2
AIRD-01-220K	22	25	15	5.5

Part Number <sup>2</sup>	L <sup>1,2</sup> (mH)	DCR mW (MAX)	ISAT <sup>3</sup> A (MAX)	IAC A (MAX)
AIRD-01-270K	27	30	14	4.5
AIRD-01-330K	33	40	13	4.0
AIRD-01-390K	39	46	11	4.0
AIRD-01-470K	47	62	11	2.8
AIRD-01-560K	56	69	10	2.8
AIRD-01-680K	68	77	9	2.8
AIRD-01-820K	82	83	8	2.8
AIRD-01-101K	100	95	7	2.8
AIRD-01-121K	120	127	5	2.0
AIRD-01-151K	150	181	5	1.6
AIRD-01-181K	180	217	5	1.6
AIRD-01-221K	220	240	4	1.6
AIRD-01-271K	270	300	4	1.6
AIRD-01-331K	330	336	3	1.3
AIRD-01-391K	390	460	3	1.0
AIRD-01-471K	470	636	3	0.8
AIRD-01-561K	560	696	3	0.8

#### Notes:

1. Inductance (L) measured @ 100 KHz, 100 mV<sub>RMS</sub> with 0 DC bias
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -40°C to +125°C
5. Dimensions: inches / mm; see spec sheet for tolerance limits
6. Marking: to include 'L' in mH
7. Specifications subject to change without notice

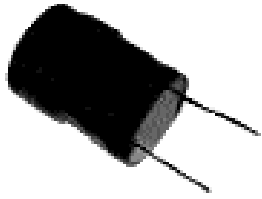
#### PHYSICAL CHARACTERISTICS<sup>5</sup>



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# THROUGH-HOLE DRUM CORE POWER INDUCTORS

## AIRD-02 SERIES

### STANDARD SPECIFICATIONS

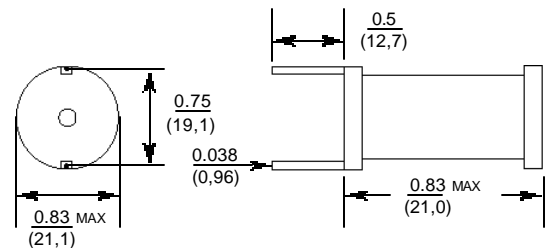
Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	DCR mΩ (MAX)	ISAT <sup>3</sup> A (MAX)	IAC A (MAX)
AIRD-02-1R0K	1.0	3	108	11.4
AIRD-02-1R2K	1.2	3	108	11.4
AIRD-02-1R5K	1.5	3	83	11.4
AIRD-02-1R8K	1.8	3	68	11.4
AIRD-02-2R2K	2.2	4	68	11.4
AIRD-02-2R7K	2.7	5	58	11.4
AIRD-02-3R3K	3.3	5	58	11.4
AIRD-02-3R9K	3.9	5	50	11.4
AIRD-02-4R7K	4.7	5	50	11.4
AIRD-02-5R6K	5.6	6	44	11.4
AIRD-02-6R8K	6.8	7	39	11.4
AIRD-02-8R2K	8.2	7	36	11.4
AIRD-02-100K	10	9	30	11.4
AIRD-02-120K	12	9	27	11.4
AIRD-02-150K	15	13	25	9.0
AIRD-02-180K	18	18	22	7.2
AIRD-02-220K	22	19	21	7.2
AIRD-02-270K	27	26	20	5.5
AIRD-02-330K	33	29	18	5.5
AIRD-02-390K	39	30	17	5.5
AIRD-02-470K	47	35	15	5.5

Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	DCR mΩ (MAX)	ISAT <sup>3</sup> A (MAX)	IAC A (MAX)
AIRD-02-560K	56	39	13.0	5.5
AIRD-02-680K	68	53	12.0	4.8
AIRD-02-820K	82	60	11.0	4.8
AIRD-02-101K	100	80	10.0	4.0
AIRD-02-121K	120	90	9.4	4.0
AIRD-02-151K	150	98	8.6	4.0
AIRD-02-181K	180	110	7.8	4.0
AIRD-02-221K	220	150	7.0	2.8
AIRD-02-271K	270	213	6.3	2.0
AIRD-02-331K	330	305	5.2	1.6
AIRD-02-391K	390	320	4.9	1.6
AIRD-02-471K	470	355	4.5	1.6
AIRD-02-561K	560	388	4.1	1.6
AIRD-02-681K	680	430	3.7	1.6
AIRD-02-821K	820	590	3.4	1.3
AIRD-02-102K	1000	818	3.1	1.0
AIRD-02-122K	1200	1140	2.7	0.8
AIRD-02-152K	1500	1260	2.4	0.8
AIRD-02-182K	1800	1390	2.2	0.8
AIRD-02-222K	2200	1540	2.0	0.8

#### Notes:

1. Inductance (L) measured @ 100 KHz, 100 mV with 0 DC bias
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -40°C to +125°C
5. Dimensions: inches / mm; see spec sheet for tolerance limits
6. Marking to include 'L' in μH
7. Specifications subject to change without notice

#### PHYSICAL CHARACTERISTICS<sup>5</sup>



# THROUGH-HOLE DRUM CORE POWER INDUCTORS

## AIRD-03 SERIES



### STANDARD SPECIFICATIONS

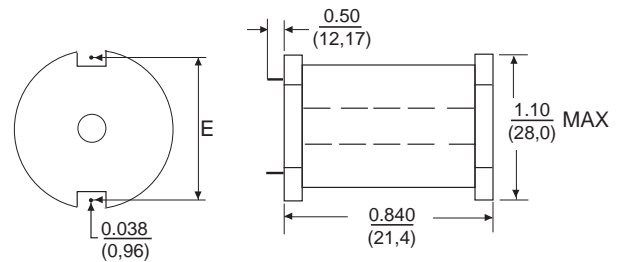
Part Number <sup>2</sup>	L <sup>1,2</sup> (mH)	DCR W (MAX)	Idc <sup>3</sup> A (MAX)	IAC A (MAX)	DIM E
AIRD-03-1R0K	1.0	.003	116	21.0	.790
AIRD-03-1R2K	1.2	.003	116	21.0	.790
AIRD-03-1R5K	1.5	.003	116	21.0	.790
AIRD-03-1R8K	1.8	.003	90	21.0	.790
AIRD-03-2R2K	2.2	.003	90	21.0	.790
AIRD-03-2R7K	2.7	.003	74	21.0	.790
AIRD-03-3R3K	3.3	.003	74	21.0	.790
AIRD-03-3R9K	3.9	.003	62	21.0	.790
AIRD-03-4R7K	4.7	.003	54	21.0	.790
AIRD-03-5R6K	5.6	.003	54	21.0	.790
AIRD-03-6R8K	6.8	.004	47	21.0	.790
AIRD-03-8R2K	8.2	.004	42	21.0	.790
AIRD-03-100K	10	.006	38	17.0	.770
AIRD-03-120K	12	.008	35	13.5	.750
AIRD-03-150K	15	.009	32	13.5	.750
AIRD-03-180K	18	.010	29	13.5	.750
AIRD-03-220K	22	.011	25	13.5	.750
AIRD-03-270K	27	.012	23	13.5	.800
AIRD-03-330K	33	.017	20	13.5	.780
AIRD-03-390K	39	.022	19	11.4	.780
AIRD-03-470K	47	.024	19	9.0	.760
AIRD-03-560K	56	.026	17	9.0	.760
AIRD-03-680K	68	.029	15	9.0	.760

Part Number <sup>2</sup>	L <sup>1,2</sup> (mH)	DCR W (MAX)	Idc <sup>3</sup> A (MAX)	IAC A (MAX)	DIM E
AIRD-03-820K	82	.032	14	9.0	.760
AIRD-03-101K	100	.034	13	9.0	.760
AIRD-03-121K	120	.046	12	7.2	.740
AIRD-03-151K	150	.064	10	5.5	.720
AIRD-03-181K	180	.072	9.7	5.5	.720
AIRD-03-221K	220	.080	8.7	5.5	.790
AIRD-03-271K	270	.110	7.9	4.5	.770
AIRD-03-331K	330	.122	7.1	4.5	.770
AIRD-03-391K	390	.169	6.7	4.0	.740
AIRD-03-471K	470	.187	6.0	4.0	.740
AIRD-03-561K	560	.187	5.5	4.0	.740
AIRD-03-681K	680	.256	5.0	2.8	.725
AIRD-03-821K	820	.032	4.5	9.0	.760
AIRD-03-102K	1000	.426	4.1	2.0	.715
AIRD-03-122K	1200	.462	3.7	2.0	.760
AIRD-03-152K	1500	.518	3.4	2.0	.760
AIRD-03-182K	1800	.705	2.8	1.6	.740
AIRD-03-222K	2200	1.02	2.5	1.3	.720
AIRD-03-272K	2700	1.14	2.3	1.3	.720
AIRD-03-332K	3300	1.27	2.0	1.3	.720
AIRD-03-392K	3900	1.67	1.8	1.0	.700
AIRD-03-472K	4700	1.86	1.7	1.00	.730

#### Notes:

1. Inductance (L) measured @ 100 KHz, 100 mV with 0 DC bias
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -40°C to +125°C
5. Dimensions: inches / mm; see spec sheet for tolerance limits
6. Marking to include 'L' in mH
7. Specifications subject to change without notice

#### PHYSICAL CHARACTERISTICS<sup>5</sup>



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# THROUGH-HOLE SHIELDED INDUCTORS

## AISR-01 SERIES

### STANDARD SPECIFICATIONS

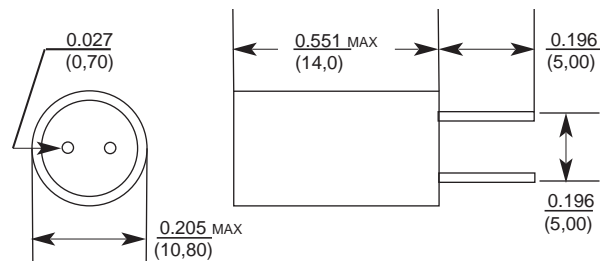
Part Number <sup>2</sup>	L <sup>1,2</sup> (mH)	Q (MIN)	DCR W (MAX)	I <sub>DC</sub> <sup>3</sup> (mA) (MAX)	SRF (MIN) (MHz)
AISR-01-102J	1000	70	3.4	90	0.77
AISR-01-122J	1200	70	3.7	75	0.70
AISR-01-152J	1500	70	4.0	70	0.64
AISR-01-182J	1800	70	4.5	65	0.57
AISR-01-222J	2200	70	5.2	60	0.51
AISR-01-272J	2700	70	5.8	55	0.48
AISR-01-332J	3300	100	6.1	50	0.44
AISR-01-392J	3900	100	7.2	45	0.41
AISR-01-472J	4700	100	7.5	40	0.38
AISR-01-562J	5600	100	8.4	40	0.35
AISR-01-682J	6800	100	9.7	35	0.32
AISR-01-822J	8200	100	10.4	30	0.28
AISR-01-103J	10000	100	12.1	25	0.25

Part Number <sup>2</sup>	L <sup>1,2</sup> (mH)	Q (MIN)	DCR W (MAX)	I <sub>DC</sub> <sup>3</sup> (mA) (MAX)	SRF (MIN) (MHz)
AISR-01-123J	12000	100	13.0	25	0.22
AISR-01-153J	15000	100	15.0	20	0.22
AISR-01-183J	18000	100	17.0	22	0.19
AISR-01-223J	22000	100	19.5	21	0.19
AISR-01-273J	27000	100	22.0	18	0.16
AISR-01-333J	33000	100	26.0	17	0.16
AISR-01-363J	36000	100	27.0	16	0.20
AISR-01-393J	39000	100	45.0	15	0.12
AISR-01-473J	47000	100	52.0	13	0.12
AISR-01-563J	56000	100	58.0	12	0.12
AISR-01-683J	68000	100	67.0	11	0.09
AISR-01-104J	100000	100	82.0	9	0.09
AISR-01-124J	120000	100	97.0	8	0.08

#### Notes:

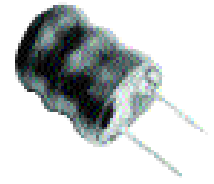
1. Inductance (L) measured @ 1 KHz, 100 mV with 0 DC bias
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -40°C to +125°C
5. Storage temperature -55°C to +125°C
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Marking to include 'L' in mH
8. Specifications subject to change without notice

#### PHYSICAL CHARACTERISTICS<sup>6</sup>



# THROUGH-HOLE POWER INDUCTORS

## AIUR-01, -02H SERIES



### STANDARD SPECIFICATIONS

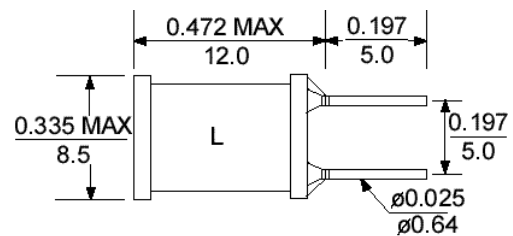
Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	Q (MIN)	L Test (KHz)	DCR Ω (MAX)	ISAT <sup>4</sup> mA (MAX)	SRF (MIN) (MHz)
AIUR-01-101K	100	60	796	2	200	6.1
AIUR-01-121K	120	60	796	2	200	5.5
AIUR-01-151K	150	60	796	3	200	5.0
AIUR-01-181K	180	60	796	3	200	4.7
AIUR-01-221K	220	60	796	3	150	4.5
AIUR-01-271K	270	60	796	3	150	4.1
AIUR-01-331K	330	60	796	4	150	4.8
AIUR-01-391K	390	60	796	4	100	3.5
AIUR-01-471K	470	60	796	5	100	3.2
AIUR-01-561K	560	60	796	6	100	2.0
AIUR-01-681K	680	60	796	6	100	2.7
AIUR-01-821K	820	60	796	7	50	2.7
AIUR-01-102K	1000	80	252	9	50	2.1
AIUR-01-122K	1200	80	252	9	50	1.9
AIUR-01-152K	1500	80	252	11	50	1.8
AIUR-01-182K	1800	80	252	12	50	1.6
AIUR-01-222K	2200	80	252	14	50	1.5
AIUR-01-272K	2700	80	252	15	50	1.4
AIUR-01-332K	3300	80	252	25	40	0.9
AIUR-01-392K	3900	80	252	30	40	0.9
AIUR-01-472K	4700	80	252	32	40	0.8
AIUR-01-562K	5600	80	252	36	30	0.7
AIUR-01-682K	6800	80	252	40	30	0.7
AIUR-01-822K	8200	80	252	45	30	0.6
AIUR-01-103K	10000	60	79.6	55	20	0.6
AIUR-01-123K	12000	60	79.6	65	20	0.5
AIUR-01-153K	15000	60	79.6	80	20	0.5

Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	Q (MIN)	L Test (MHz)	DCR Ω (MAX)	ISAT <sup>4</sup> A (MAX)	SRF (MIN) (MHz)
AIUR-02H-1R0K	1.0	20	7.96	0.02	8.60	130.0
AIUR-02H-2R2K	2.2	20	7.96	0.03	6.30	85.0
AIUR-02H-3R3K	3.3	20	7.96	0.03	5.40	79.0
AIUR-02H-4R7K	4.7	20	7.96	0.03	4.60	51.0
AIUR-02H-6R8K	6.8	20	7.96	0.04	4.10	35.0
AIUR-02H-100K	10	50	2.52	0.04	3.40	16.0
AIUR-02H-120K	12	50	2.52	0.05	3.10	15.0
AIUR-02H-150K	15	50	2.52	0.04	3.40	15.0
AIUR-02H-180K	18	40	2.52	0.06	2.66	13.0
AIUR-02H-220K	22	40	2.52	0.07	2.40	11.0
AIUR-02H-270K	27	40	2.52	0.07	2.22	11.0
AIUR-02H-330K	33	30	2.52	0.08	2.05	11.0
AIUR-02H-390K	39	30	2.52	0.10	1.77	10.0
AIUR-02H-470K	47	30	2.52	0.09	1.85	10.0
AIUR-02H-560K	56	30	2.52	0.15	1.48	10.0
AIUR-02H-680K	68	30	2.52	0.16	1.36	10.0
AIUR-02H-820K	82	30	2.52	0.17	1.30	10.0
AIUR-02H-101K	100	30	0.79	0.21	1.40	9.0
AIUR-02H-121K	120	30	0.79	0.24	1.25	9.0
AIUR-02H-151K	150	30	0.79	0.27	1.15	9.0
AIUR-02H-181K	180	30	0.79	0.30	1.08	9.0
AIUR-02H-221K	220	30	0.79	0.34	1.00	9.0
AIUR-02H-271K	270	30	0.79	0.39	0.90	9.0
AIUR-02H-331K	330	30	0.79	0.62	0.78	9.0
AIUR-02H-391K	390	30	0.79	0.69	0.74	9.0
AIUR-02H-471K	470	30	0.79	0.77	0.68	9.0
AIUR-02H-561K	560	30	0.79	0.83	0.64	9.0
AIUR-02H-681K	680	20	0.79	0.94	0.59	9.0
AIUR-02H-821K	820	20	0.79	1.03	0.56	9.0
AIUR-02H-102K	1000	20	0.79	1.18	0.51	9.0

#### NOTES:

1. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
2. Letter suffix indicates standard tolerance
3. Operating temperature: -40°C to +125°C
4. Inductance drops by 10%
5. Marking to include 'L' in μH
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Specifications subject to change without notice

#### PHYSICAL CHARACTERISTICS<sup>6</sup>

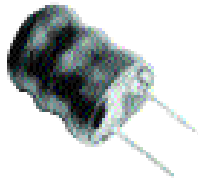


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# THROUGH-HOLE POWER INDUCTORS

## AIUR-03, -04 SERIES

### STANDARD SPECIFICATIONS

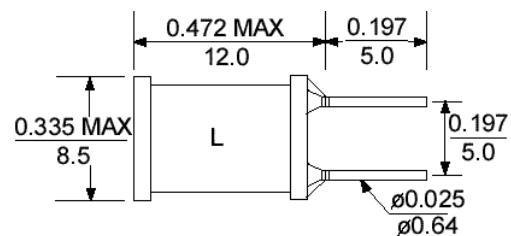
Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	Q (MIN)	L Test (MHz)	DCR Ω (MAX)	ISAT <sup>4</sup> A (MAX)	SRF (MIN) (MHz)
AIUR-03-1R0K	1.0	20	7.96	0.013	10	150
AIUR-03-1R5K	1.5	20	7.96	0.016	8.5	130
AIUR-03-2R2K	2.2	20	7.96	0.021	6.5	100
AIUR-03-3R3K	3.3	20	7.96	0.025	5.5	79
AIUR-03-4R7K	4.7	20	7.96	0.030	4.3	51
AIUR-03-6R8K	6.8	20	2.52	0.035	3.7	29
AIUR-03-100K	10	50	2.52	0.045	3.0	14
AIUR-03-120K	12	50	2.52	0.050	2.7	13
AIUR-03-150K	15	50	2.52	0.056	2.3	12
AIUR-03-180K	18	40	2.52	0.061	2.2	11
AIUR-03-220K	22	40	2.52	0.070	2.0	9.2
AIUR-03-270K	27	40	2.52	0.080	1.7	8.5
AIUR-03-330K	33	30	2.52	0.090	1.6	7.8
AIUR-03-390K	39	30	2.52	0.100	1.5	6.9
AIUR-03-470K	47	30	2.52	0.160	1.4	6.5
AIUR-03-560K	56	30	2.52	0.180	1.3	5.4
AIUR-03-680K	68	30	2.52	0.210	1.2	4.9
AIUR-03-820K	82	30	2.52	0.230	1.1	4.1
AIUR-03-101K	100	20	0.796	0.280	0.91	3.7
AIUR-03-121K	120	20	0.796	0.320	0.84	3.4
AIUR-03-151K	150	20	0.796	0.370	0.75	3.2
AIUR-03-181K	180	20	0.796	0.580	0.69	2.8
AIUR-03-221K	220	20	0.796	0.650	0.64	2.7
AIUR-03-331K	330	20	0.796	0.850	0.54	2.3
AIUR-03-391K	390	20	0.796	1.00	0.48	2.1
AIUR-03-471K	470	20	0.796	1.10	0.46	1.9
AIUR-03-561K	560	20	0.796	1.40	0.41	1.8
AIUR-03-681K	680	20	0.796	1.60	0.38	1.6
AIUR-03-821K	820	20	0.796	1.80	0.35	1.5
AIUR-03-102K	1000	50	0.252	2.90	0.29	1.3

Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	Q (MIN)	L Test (KHz)	DCR Ω (MAX)	ISAT <sup>4</sup> mA (MAX)	SRF (MIN) (MHz)
AIUR-04-101J	100	80	796	2.0	200	5.3
AIUR-04-121J	120	80	796	2.0	200	4.5
AIUR-04-151J	150	80	796	2.0	200	3.8
AIUR-04-181J	180	80	796	3.0	200	3.3
AIUR-04-221J	220	80	796	3.0	200	2.9
AIUR-04-271J	270	80	796	3.0	200	2.6
AIUR-04-331J	330	80	796	4.0	200	2.3
AIUR-04-391J	390	80	796	4.0	200	2.1
AIUR-04-471J	470	80	796	4.0	200	1.9
AIUR-04-561J	560	80	796	4.0	200	1.7
AIUR-04-681J	680	80	796	4.0	200	1.6
AIUR-04-821J	820	80	796	6.0	200	1.4
AIUR-04-102J	1000	90	252	6.0	150	1.3
AIUR-04-122J	1200	90	252	9.0	150	1.2
AIUR-04-152J	1500	90	252	9.0	150	1.1
AIUR-04-182J	1800	90	252	9.0	100	1.0
AIUR-04-222J	2200	90	252	13	100	0.9
AIUR-04-272J	2700	90	252	13	100	0.8
AIUR-04-332J	3300	90	252	13	100	0.7
AIUR-04-392J	3900	90	252	13	50	0.7
AIUR-04-472J	4700	90	252	18	50	0.6
AIUR-04-562J	5600	90	252	18	50	0.6
AIUR-04-682J	6800	90	252	26	50	0.5
AIUR-04-822J	8200	90	252	26	50	0.5
AIUR-04-103J	10000	100	79.6	40	40	0.4
AIUR-04-123J	12000	100	79.6	40	40	0.4
AIUR-04-153J	15000	100	79.6	60	40	0.4
AIUR-04-183J	18000	100	79.6	60	30	0.3
AIUR-04-223J	22000	100	79.6	80	30	0.3
AIUR-04-273J	27000	100	79.6	80	30	0.3

#### NOTES:

1. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
2. Letter suffix indicates standard tolerance
3. Operating temperature: -40°C to 125°C
4. Inductance drops by 10%
5. Marking to include 'L' in μH
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Specifications subject to change without notice

#### PHYSICAL CHARACTERISTICS<sup>6</sup>



# THROUGH-HOLE POWER INDUCTORS

## AIUR-05 SERIES



### STANDARD SPECIFICATIONS

Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	Q (MIN)	SRF MHz (MIN)	DCR Ω (MAX)	I <sub>DC</sub> <sup>3</sup> A (MAX)	Figure
AIUR-05-3R3M	3.3	10	38	0.013	4.50	1
AIUR-05-4R7M	4.7	10	30	0.017	3.70	1
AIUR-05-5R8M	5.8	10	24	0.022	3.10	1
AIUR-05-100K	10	20	19	0.031	2.50	1
AIUR-05-150K	15	20	15	0.042	2.00	1
AIUR-05-220K	22	20	12	0.070	1.60	2
AIUR-05-330K	33	20	10	0.092	1.30	2
AIUR-05-470K	47	20	8.2	0.130	1.10	2
AIUR-05-680K	68	20	8.2	0.130	1.10	2
AIUR-05-101K	100	15	5.4	0.230	0.75	2
AIUR-05-151K	150	15	4.3	0.400	0.61	2
AIUR-05-221K	220	15	3.5	0.530	0.50	2
AIUR-05-331K	330	15	2.8	0.780	0.41	2
AIUR-05-471K	470	10	2.3	1.000	0.34	2
AIUR-05-681K	680	10	1.9	1.500	0.28	2
AIUR-05-102K	1000	20	1.5	2.200	0.23	2
AIUR-05-152K	1500	30	1.2	3.500	0.18	2

### PHYSICAL CHARACTERISTICS<sup>5</sup>

Figure 1

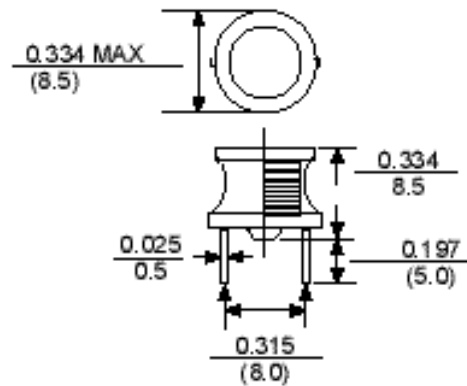
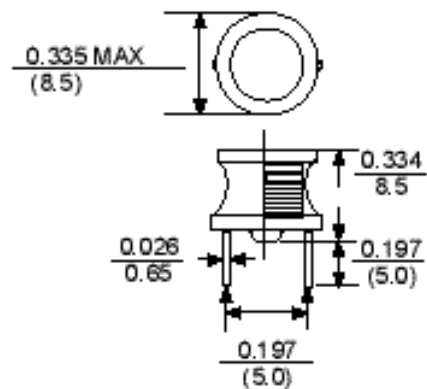


Figure 2



#### Notes:

1. Inductance (L) measured @ 100 KHz, 100 mV with 0 DC bias
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Current rating at which inductance (L) drops 10%
4. Operating temperature -40°C to +125°C
5. Dimensions: inches / mm; see spec sheet for tolerance limits
6. Marking to include 'L' in μH
7. Specifications subject to change without notice

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# THROUGH-HOLE POWER INDUCTORS

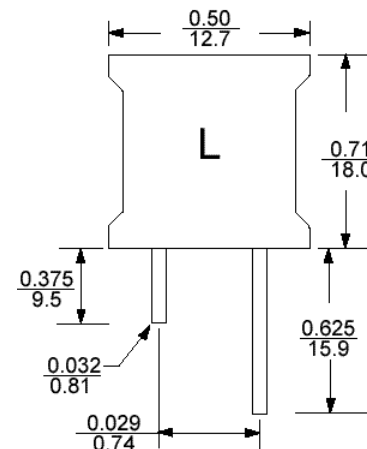
## AIUR-06 SERIES

### STANDARD SPECIFICATIONS

Part Number <sup>2</sup>	L <sup>1,2</sup> ( $\mu$ H)	DCR $\Omega$ (MAX)	I <sub>DC</sub> <sup>4</sup> A (MAX)	I <sub>AC</sub> A (MAX)
AIUR-06-3R9K	3.9	0.016	14.2	2.6
AIUR-06-4R7K	4.7	0.018	13.0	2.6
AIUR-06-5R6K	5.6	0.021	11.0	2.6
AIUR-06-6R8K	6.8	0.023	10.0	2.6
AIUR-06-8R2K	8.2	0.026	9.5	2.6
AIUR-06-100K	10	0.031	8.8	2.6
AIUR-06-120K	12	0.036	7.9	2.6
AIUR-06-150K	15	0.040	7.1	2.6
AIUR-06-180K	18	0.041	7.4	2.6
AIUR-06-220K	22	0.043	6.1	2.6
AIUR-06-270K	27	0.046	5.5	2.6
AIUR-06-330K	33	0.051	5.2	2.6
AIUR-06-390K	39	0.054	4.5	2.6
AIUR-06-470K	47	0.063	4.1	2.6
AIUR-06-560K	56	0.075	3.8	2.6
AIUR-06-680K	68	0.078	3.5	2.6
AIUR-06-820K	82	0.088	3.1	2.6
AIUR-06-101K	100	0.108	2.8	2.0
AIUR-06-121K	120	0.127	2.6	2.0
AIUR-06-151K	150	0.162	2.4	1.6
AIUR-06-181K	180	0.228	2.1	1.3
AIUR-06-221K	220	0.252	1.9	1.3
AIUR-06-271K	270	0.270	1.75	1.3

Part Number <sup>2</sup>	L <sup>1,2</sup> ( $\mu$ H)	DCR $\Omega$ (MAX)	I <sub>DC</sub> <sup>4</sup> A (MAX)	I <sub>AC</sub> A (MAX)
AIUR-06-331K	330	0.394	1.62	1.00
AIUR-06-391K	390	0.416	1.40	1.00
AIUR-06-471K	470	0.568	1.30	0.80
AIUR-06-561K	560	0.650	1.20	0.80
AIUR-06-681K	680	0.740	1.10	0.62
AIUR-06-821K	820	1.0	0.96	0.49
AIUR-06-102K	1000	1.2	0.88	0.49
AIUR-06-122K	1200	1.5	0.80	0.49
AIUR-06-152K	1500	1.7	0.72	0.39
AIUR-06-182K	1800	1.8	0.66	0.39
AIUR-06-222K	2200	2.4	0.60	0.39
AIUR-06-272K	2700	2.8	0.54	0.30
AIUR-06-332K	3300	3.7	0.48	0.25
AIUR-06-392K	3900	5.0	0.42	0.25
AIUR-06-472K	4700	5.6	0.40	0.25
AIUR-06-562K	5600	6.3	0.37	0.19
AIUR-06-682K	6800	8.4	0.34	0.19
AIUR-06-822K	8200	9.6	0.31	0.19
AIUR-06-103K	10000	10.5	0.29	0.19
AIUR-06-123K	12000	14.5	0.25	0.15
AIUR-06-153K	15000	20.5	0.23	0.12

### PHYSICAL CHARACTERISTICS<sup>6</sup>



#### NOTES:

1. Inductance (L) measured @ 10 KHz, 100 mV with 0 DC bias
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Operating temperature: -55°C to +125°C
4. Inductance drops by 10%
5. Marking to include 'L' in  $\mu$ H
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Specifications subject to change without notice



# THROUGH-HOLE POWER INDUCTORS

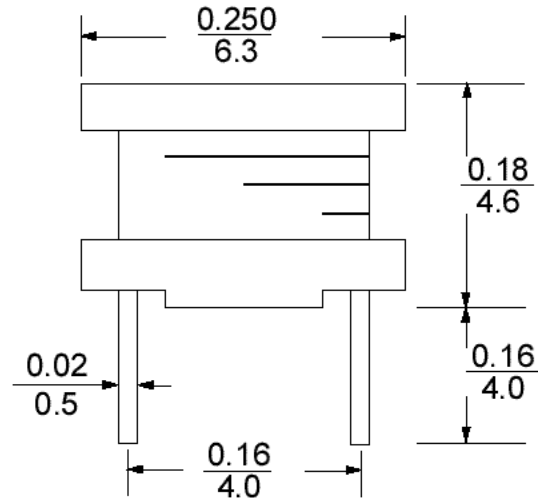
## AIUR-07 SERIES



### STANDARD SPECIFICATIONS

Part Number <sup>2</sup>	L <sup>1,2</sup> ( $\mu$ H)	DCR $\Omega$ (MAX)	I <sub>DC</sub> <sup>4</sup> A (MAX)	Q 100 KHz (MIN)
AIUR-07-100K	10	0.10	1.5	24
AIUR-07-120K	12	0.12	1.4	23
AIUR-07-150K	15	0.13	1.3	22
AIUR-07-180K	18	0.14	1.1	31
AIUR-07-220K	22	0.16	1.0	29
AIUR-07-270K	27	0.19	0.9	27
AIUR-07-330K	33	0.25	0.8	37
AIUR-07-390K	39	0.28	0.5	37
AIUR-07-470K	47	0.32	0.7	35
AIUR-07-560K	56	0.37	0.6	34
AIUR-07-680K	68	0.46	0.6	39
AIUR-07-820K	82	0.54	0.5	36
AIUR-07-101K	100	0.66	0.5	43
AIUR-07-121K	120	0.87	0.4	48
AIUR-07-151K	150	1.03	0.4	49
AIUR-07-181K	180	1.26	0.4	47
AIUR-07-221K	220	1.39	0.3	47
AIUR-07-271K	270	2.0	0.3	53
AIUR-07-331K	330	2.2	0.3	55
AIUR-07-391K	390	2.6	0.2	56
AIUR-07-471K	470	3.0	0.2	53
AIUR-07-561K	560	3.5	0.2	53
AIUR-07-681K	680	4.7	0.18	58
AIUR-07-821K	820	5.3	0.17	57
AIUR-07-102K	1000	6.3	0.15	60

### PHYSICAL CHARACTERISTICS<sup>6</sup>



#### NOTES:

- Inductance (L) <100  $\mu$ H measured at 2.52 MHz, 100 mV with 0 DC bias  
 $\geq$ 100  $\mu$ H measured at 100 KHz, 100 mV with 0 DC bias
- Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
- Operating temperature: -55°C to +125°C
- Inductance drops by 10%
- Marking to include 'L' in  $\mu$ H
- Dimensions: inches / mm; see spec sheet for tolerance limits
- Specifications subject to change without notice

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# THROUGH-HOLE POWER INDUCTORS

## AIUR-08, -09 SERIES

### STANDARD SPECIFICATIONS

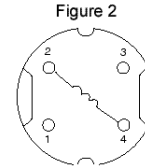
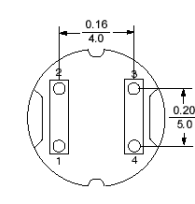
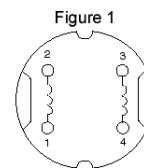
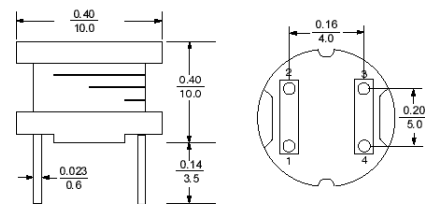
Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	DCR Ω (MAX)	I <sub>DC</sub> <sup>4</sup> A (MAX)	Figure
AIUR-08-100K	10	0.022	5.3	1
AIUR-08-120K	12	0.023	4.9	1
AIUR-08-150K	15	0.026	4.4	1
AIUR-08-180K	18	0.033	4.0	1
AIUR-08-220K	22	0.037	3.6	1
AIUR-08-330K	33	0.055	2.9	1
AIUR-08-390K	39	0.073	2.7	2
AIUR-08-470K	47	0.083	2.5	2
AIUR-08-560K	56	0.092	2.3	2
AIUR-08-680K	68	0.12	2.1	2
AIUR-08-820K	82	0.14	1.9	2
AIUR-08-101K	100	0.16	1.7	2
AIUR-08-121K	120	0.20	1.5	2
AIUR-08-151K	150	0.23	1.4	2
AIUR-08-181K	180	0.31	1.3	2
AIUR-08-221K	220	0.34	1.1	2
AIUR-08-271K	270	0.40	1.00	2
AIUR-08-331K	330	0.52	0.93	2
AIUR-08-391K	390	0.65	0.86	2
AIUR-08-471K	470	0.71	0.78	2
AIUR-08-561K	560	1.00	0.71	2
AIUR-08-681K	680	1.10	0.65	2
AIUR-08-821K	820	1.30	0.59	2
AIUR-08-102K	1000	1.70	0.53	2

Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	DCR Ω (MAX)	I <sub>DC</sub> <sup>4</sup> A (MAX)	Figure
AIUR-09-100M	10	0.044	3.6	2
AIUR-09-120M	12	0.054	3.3	2
AIUR-09-150M	15	0.062	2.9	2
AIUR-09-180M	18	0.088	2.7	2
AIUR-09-220M	22	0.092	2.4	2
AIUR-09-270M	27	0.110	2.2	2
AIUR-09-330M	33	0.140	2.0	2
AIUR-09-390M	39	0.160	1.8	2
AIUR-09-470M	47	0.180	1.7	2
AIUR-09-560M	56	0.210	1.5	2
AIUR-09-680M	68	0.25	1.4	2
AIUR-09-820M	82	0.32	1.3	2
AIUR-09-101K	100	0.36	1.3	2
AIUR-09-121K	120	0.42	1.1	2
AIUR-09-151K	150	0.51	1.0	2
AIUR-09-181K	180	0.62	0.84	2
AIUR-09-221K	220	0.70	0.81	2
AIUR-09-271K	270	0.90	0.72	2
AIUR-09-331K	330	1.20	0.62	2
AIUR-09-391K	390	1.30	0.59	2
AIUR-09-471K	470	1.50	0.57	2
AIUR-09-561K	560	1.90	0.49	2
AIUR-09-681K	680	2.40	0.45	2
AIUR-09-821K	820	2.80	0.43	2
AIUR-09-102K	1000	3.30	0.36	2

#### NOTES:

- Inductance (L) <100 μH measured at 2.52 MHz, 100 mV with 0 DC bias  
≥100 μH measured at 100 KHz, 100 mV with 0 DC bias
- Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
- Operating temperature: -55°C to 85°C
- Inductance drops by 10%
- Marking to include 'L' in μH
- Dimensions: inches / mm; see spec sheet for tolerance limits
- Specifications subject to change without notice

#### PHYSICAL CHARACTERISTICS<sup>6</sup>



# THROUGH-HOLE POWER INDUCTORS

## AIUR-10 SERIES



### STANDARD SPECIFICATIONS

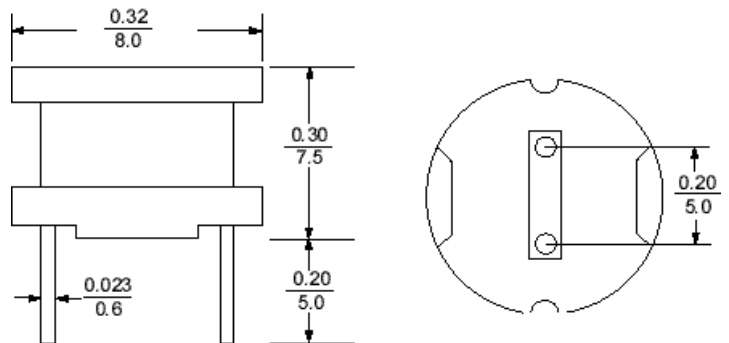
Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	DCR Ω (MAX)	I <sub>DC</sub> <sup>4</sup> A (MAX)
AIUR-10-100K	10	0.08	2.45
AIUR-10-120K	12	0.09	2.30
AIUR-10-150K	15	0.10	2.00
AIUR-10-180K	18	0.12	1.80
AIUR-10-220K	22	0.13	1.67
AIUR-10-270K	27	0.14	1.59
AIUR-10-330K	33	0.15	1.27
AIUR-10-390K	39	0.16	1.19
AIUR-10-470K	47	0.23	1.16
AIUR-10-560K	56	0.26	1.08
AIUR-10-680K	68	0.27	1.02
AIUR-10-820K	82	0.31	0.86
AIUR-10-101K	100	0.44	0.77
AIUR-10-121K	120	0.50	0.73
AIUR-10-151K	150	0.58	0.59
AIUR-10-181K	180	0.65	0.55

Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	DCR Ω (MAX)	I <sub>DC</sub> <sup>4</sup> A (MAX)
AIUR-10-221K	220	0.85	0.45
AIUR-10-471K	270	0.99	0.41
AIUR-10-331K	330	1.12	0.35
AIUR-10-391K	390	1.26	0.32
AIUR-10-471K	470	1.68	0.28
AIUR-10-561K	560	1.88	0.24
AIUR-10-681K	680	2.18	0.23
AIUR-10-821K	820	2.71	0.21
AIUR-10-102K	1000	3.01	0.20
AIUR-10-122K	1200	3.41	0.18
AIUR-10-152K	1500	4.00	0.17
AIUR-10-182K	1800	6.12	0.16
AIUR-10-222K	2200	6.98	0.16
AIUR-10-272K	2700	7.97	0.16
AIUR-10-332K	3300	11.8	0.15
AIUR-10-392K	3900	13.0	0.14

#### NOTES:

1. Inductance (L) <100 μH measured at 2.52 MHz, 100 mV with 0 DC bias  
≥100 μH measured at 100 KHz, 100 mV with 0 DC bias
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Operating temperature: -55°C to 85°C
4. Inductance drops by 10%
5. Marking to include 'L' in μH
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Specifications subject to change without notice

#### PHYSICAL CHARACTERISTICS<sup>6</sup>



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# THROUGH-HOLE POWER INDUCTORS

## AIUR-11 SERIES

### STANDARD SPECIFICATIONS

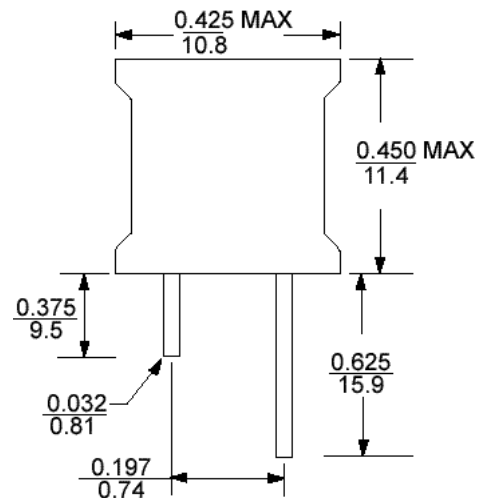
Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	DCR Ω (MAX)	I <sub>DC</sub> <sup>4</sup> A (MAX)	I <sub>AC</sub> A (MAX)
AIUR-11-3R9K	3.9	0.022	6.80	1.60
AIUR-11-4R7K	4.7	0.024	6.20	1.60
AIUR-11-5R6K	5.6	0.025	5.60	1.60
AIUR-11-6R8K	6.8	0.028	5.10	1.60
AIUR-11-8R2K	8.2	0.030	4.60	1.60
AIUR-11-100K	10	0.034	4.20	1.60
AIUR-11-120K	12	0.038	3.80	1.60
AIUR-11-150K	15	0.043	3.30	1.60
AIUR-11-180K	18	0.049	3.10	1.60
AIUR-11-220K	22	0.054	2.70	1.60
AIUR-11-270K	27	0.059	2.50	1.60
AIUR-11-330K	33	0.066	2.30	1.60
AIUR-11-390K	39	0.078	2.20	1.60
AIUR-11-470K	47	0.102	1.90	1.30
AIUR-11-560K	56	0.138	1.60	1.00
AIUR-11-680K	68	0.168	1.45	1.00
AIUR-11-820K	82	0.174	1.30	1.00
AIUR-11-101K	100	0.180	1.20	1.00
AIUR-11-121K	120	0.234	1.10	0.80
AIUR-11-151K	150	0.276	1.00	0.80
AIUR-11-181K	180	0.300	0.92	0.80
AIUR-11-221K	220	0.353	0.86	0.80
AIUR-11-271K	270	0.500	0.76	0.62

Part Number <sup>2</sup>	L <sup>1,2</sup> (μH)	DCR Ω (MAX)	I <sub>DC</sub> <sup>4</sup> A (MAX)	I <sub>AC</sub> A (MAX)
AIUR-11-331K	330	0.635	0.700	0.490
AIUR-11-391K	390	0.720	0.620	0.490
AIUR-11-471K	470	0.816	0.600	0.490
AIUR-11-561K	560	1.030	0.540	0.385
AIUR-11-681K	680	1.200	0.510	0.385
AIUR-11-821K	820	1.54	4.500	0.300
AIUR-11-102K	1000	2.16	0.390	0.246
AIUR-11-122K	1200	2.40	0.360	0.246
AIUR-11-152K	1500	2.76	0.340	0.246
AIUR-11-182K	1800	3.60	0.300	0.190
AIUR-11-222K	2200	4.00	0.245	0.190
AIUR-11-272K	2700	6.00	0.238	0.150
AIUR-11-332K	3300	6.72	0.225	0.150
AIUR-11-392K	3900	8.80	0.200	0.120
AIUR-11-472K	4700	11.00	0.185	0.095
AIUR-11-562K	5600	13.20	0.170	0.095
AIUR-11-682K	6800	14.50	0.150	0.095
AIUR-11-822K	8200	16.55	0.140	0.095
AIUR-11-103K	10000	20.40	0.130	0.076
AIUR-11-123K	12000	24.00	0.120	0.076
AIUR-11-153K	15000	27.60	0.100	0.076

### PHYSICAL CHARACTERISTICS<sup>6</sup>

#### NOTES:

1. Inductance (L) measured @ 10 KHz, 100 mV with 0 DC bias
2. Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
3. Operating temperature: -55°C to 85°C
4. Inductance drops by 10%
5. Marking to include 'L' in μH
6. Dimensions: inches / mm; see spec sheet for tolerance limits
7. Specifications subject to change without notice



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# THROUGH-HOLE POWER INDUCTORS

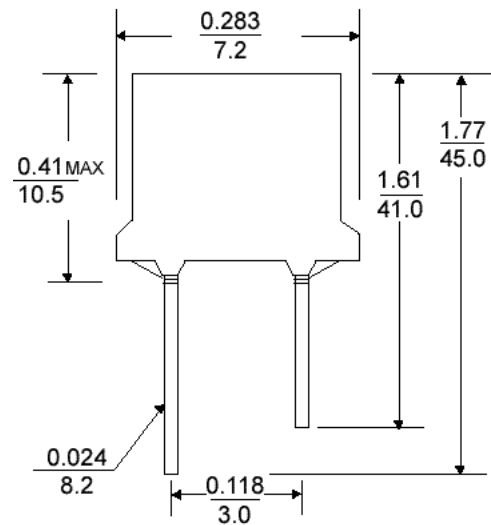
## AIUR-12 SERIES



### STANDARD SPECIFICATIONS

Part Number <sup>2</sup>	L <sup>1,2</sup> ( $\mu$ H)	DCR $\Omega$ (MAX)	I <sub>DC</sub> <sup>4</sup> A (MAX)	SRF (MHz) (MIN)	Q 100 KHz (MIN)
AIUR-12-100K	10	0.70	1.50	40.0	140
AIUR-12-150K	15	0.80	1.10	30.0	150
AIUR-12-220K	22	0.11	1.00	20.0	150
AIUR-12-330K	33	0.15	0.92	15.0	150
AIUR-12-470K	47	0.28	0.78	12.8	160
AIUR-12-680K	68	0.30	0.77	6.8	150
AIUR-12-101K	100	0.50	0.66	6.0	160
AIUR-12-151K	150	0.54	0.52	4.4	160
AIUR-12-221K	220	1.05	0.44	3.7	150
AIUR-12-331K	330	1.21	0.38	3.3	150
AIUR-12-471K	470	1.87	0.31	2.9	140
AIUR-12-681K	680	2.70	0.25	2.2	120
AIUR-12-102K	1000	3.80	0.17	1.8	150
AIUR-12-152K	1500	5.40	0.13	1.7	160
AIUR-12-222K	2200	11.00	0.11	1.4	150
AIUR-12-472K	4700	18.00	0.07	0.6	120

### PHYSICAL CHARACTERISTICS<sup>6</sup>



### NOTES:

- Inductance (L) measured @ 100 KHz, 100 mV with 0 DC bias
- Inductance (L) tolerance: J = 5%, K = 10%, M = 20%
- Operating temperature: -55°C to 85°C
- Inductance drops by 10%
- Marking to include 'L' in  $\mu$ H
- Dimensions: inches / mm; see spec sheet for tolerance limits
- Specifications subject to change without notice

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