

# AIR CORE COIL FASCR2215,4015 SERIES



## FEATURES :

Air core inductors feature high Q and high current handling  
Low loss  
Low DCR

## APPLICATIONS:

Base Station  
LNA  
LNB  
Satellite

## GENERAL SPECIFICATIONS:

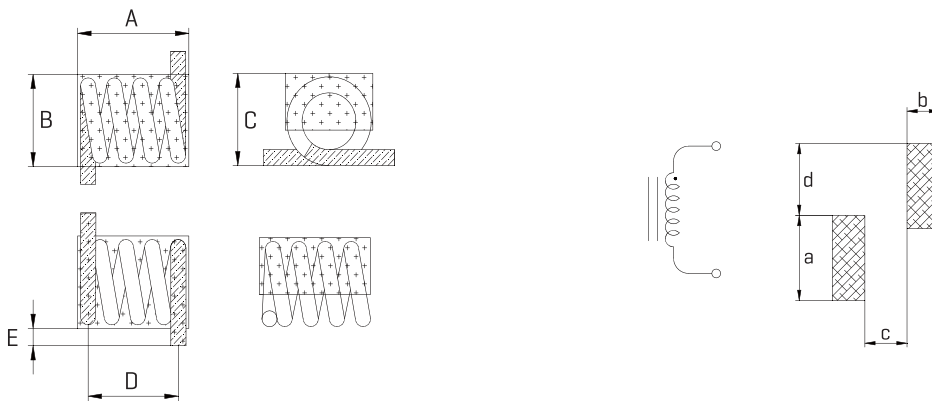
Rated current:1.6A  
Parameters Test Temp:25°C  
Test Frequency:100MHz  
Operating temperature:-40°C to +125°C  
Storage Temp:-0°C to +40°C  
Resistance to Soldering Heat:260°C for 10 sec  
Temperature Rise:40°C Typ. at Rated Current  
All parts meet ROHS compliance

## ELECTRICAL CHARACTERISTICS

Part Number	Inductance [nH]	Q [Min]	Test Freq [MHz]	D.C.R [mohm] Max at 25°C	SRF [GHz] Min	Rated current [A]Max
FASCR2215-02T	1.65±10%	100	800	5.50	3.00	1.60
FASCR2215-03T	2.70±10%	100	800	6.50	3.00	1.60
FASCR2215-04T	3.85±10%	100	800	7.50	3.00	1.60
FASCR2215-05T	5.45±5%	100	800	9.50	3.00	1.60
FASCR4015-06T	5.60±5%	100	800	10.5	3.00	1.60
FASCR4015-07T	7.15±5%	100	800	11.5	3.00	1.60
FASCR4015-08T	8.80±5%	100	800	13.5	3.00	1.60
FASCR4015-09T	9.85±5%	100	800	14.5	3.00	1.60
FASCR4015-10T	12.55±5%	100	800	15.5	3.00	1.60

## TECHNICAL INFORMATION:

## ELECTRICAL SCHEMATIC AND PAD LAYOUT:



DIMENSIONS:MM

Part number	A	B	C	D	E	a	b	c	d
FASCR2215	2.20±0.3	1.40±0.3	1.40±0.3	1.80±0.3	0.90±0.4	2.46 REF	0.79 REF	1.01 REF	1.00 REF
FASCR4015	4.00±0.3	1.40±0.3	1.40±0.3	3.50±0.3	0.90±0.4	2.46 REF	0.79 REF	2.71 REF	1.00 REF

# AIR CPRE COIL FASCR3730,7030 SERIES



## FEATURES:

Air core inductors feature high Q and high current handling  
Low loss  
Low DCR

## APPLICATIONS:

Base Station  
LNA  
LNB  
Satellite

## GENERAL SPECIFICATIONS:

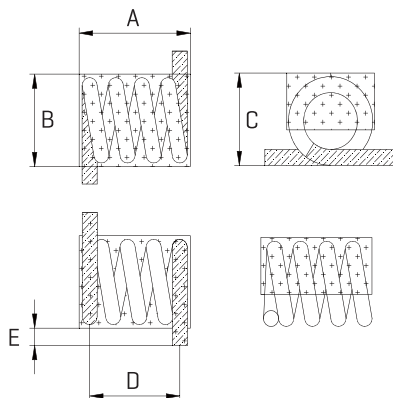
Rated current:4.0A  
Parameters Test Temp:25°C  
Test Frequency:100MHz  
Operating temperature:-40°C to +125°C  
Storage Temp:-0°C to +40°C  
Resistance to Soldering Heat:260°C for 10 sec  
Temperature Rise:40°C Typ. at Rated Current  
All parts meet ROHS compliance

## ELECTRICAL CHARACTERISTICS

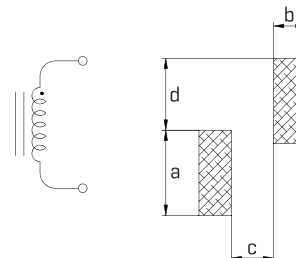
Part Number	Inductance (nH)	Q [Min]	Test Freq [MHz]	D.C.R [mohm] Max at 25°C	SRF [GHZ] Min	Rated current [A]Max
FASCR3730-01T	2.50±10%	145	150	0.80	3.00	4.00
FASCR3730-02T	5.00±10%	140	150	1.50	3.00	4.00
FASCR3730-03T	8.00±10%	140	150	2.30	3.00	4.00
FASCR3730-04T	12.5±5%	137	150	3.00	3.00	4.00
FASCR3730-05T	18.5±5%	132	150	3.90	2.50	4.00

Part Number	Inductance (nH)	Q [Min]	Test Freq [MHz]	D.C.R [mohm] Max at 25°C	SRF [GHZ] Min	Rated current [A]Max
FASCR7030-06T	17.5±5%	100	150	4.50	2.20	4.00
FASCR7030-07T	22.0±5%	100	150	5.00	2.00	4.00
FASCR7030-08T	28.0±5%	100	150	5.60	1.80	4.00
FASCR7030-09T	35.5±5%	100	150	6.20	1.20	4.00
FASCR7030-10T	43.5±5%	100	150	6.70	1.00	4.00

## TECHNICAL INFORMATION:



## ELECTRICAL SCHEMATIC AND PAD LAYOUT:



## DIMENSIONS:MM

Part number	A	B	C	D	E	a	b	c	d
FASCR3730	3.30±0.3	2.60±0.3	2.70±0.3	2.90±0.3	0.70±0.4	3.30 REF	1.27 REF	1.63 REF	2.80 REF
FASCR7030	6.00±0.3	2.60±0.3	2.70±0.3	5.80±0.3	0.70±0.4	3.30 REF	1.27 REF	4.53 REF	2.80 REF

# AIR CPRE COIL FASCR1812,132 SERIES



## FEATURES :

Air core inductors feature high Q and high current handling  
Low loss  
Low DCR

## APPLICATIONS:

Base Station  
LNA  
LNB  
Satellite

## GENERAL SPECIFICATIONS:

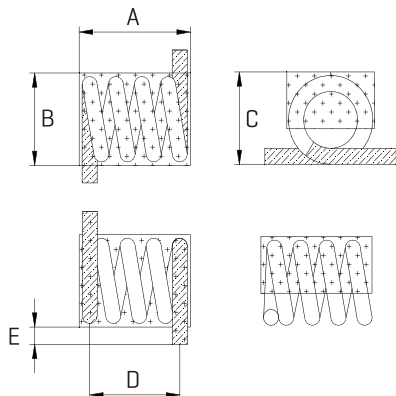
Rated current:2.0A to 3.5A  
Parameters Test Temp:25°C  
Test Frequency:100MHz  
Operating temperature:-40°C to +125°C  
Storage Temp:-0°C to +40°C  
Resistance to Soldering Heat:260°C for 10 sec  
Temperature Rise:40°C Typ. at Rated Current  
All parts meet ROHS compliance

## ELECTRICAL CHARACTERISTICS

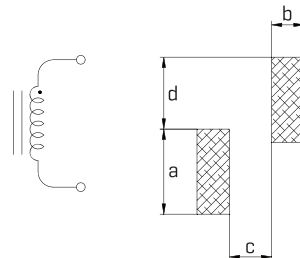
Part Number	Inductance [nH]	Q [Min]	Test Freq [MHz]	D.C.R [mohm] Max at 25°C	SRF [GHz] Min	Rated current [A]Max
FASCR1812-22N	22±10%	100	150	4.80	3.20	3.20
FASCR1812-27N	27±10%	100	150	4.60	2.70	3.50
FASCR1812-33N	33±10%	100	150	5.90	2.50	3.00
FASCR1812-39N	39±5%	100	150	5.60	2.10	3.00
FASCR1812-47N	47±5%	100	150	6.90	2.10	2.80
FASCR1812-56N	56±5%	100	150	6.40	1.50	2.90
FASCR1812-68N	68±5%	100	150	8.10	1.50	2.90
FASCR1812-82N	82±5%	100	150	8.90	1.30	2.60
FASCR1812-R10	100±5%	100	150	10.0	1.20	2.50
FASCR1812-R12	120±5%	100	150	11.5	1.10	2.40
FASCR1812-R15	150±5%	100	150	13.0	1.00	2.20

Part Number	Inductance [nH]	Q [Min]	Test Freq [MHz]	D.C.R [mohm] Max at 25°C	SRF [GHz] Min	Rated current [A]Max
FASCR132-09T	90±5%	100	50	14.0	1.00	3.50
FASCR132-10T	111±5%	100	50	9.5	1.00	3.50
FASCR132-11T	130±5%	100	50	10.8	0.90	3.00
FASCR132-12T	169±5%	100	50	12.0	0.80	3.00
FASCR132-13T	206±5%	100	50	10.5	0.70	3.00
FASCR132-14T	222±5%	100	50	14.0	0.60	3.00
FASCR132-15T	246±5%	100	50	17.0	0.60	3.00
FASCR132-16T	307±5%	100	50	22.0	0.50	3.00
FASCR132-17T	380±5%	100	50	25.5	0.50	2.50
FASCR132-18T	422±5%	100	50	39.0	0.40	2.50
FASCR132-19T	491±5%	100	50	40.0	0.40	2.00
FASCR132-20T	538±5%	100	50	42.0	0.40	2.00

## TECHNICAL INFORMATION:



## ELECTRICAL SCHEMATIC AND PAD LAYOUT:



### DIMENSIONS:MM

Part number	A	B	C	D	E	a	b	c	d
FASCR1812	4.70±0.3	3.50±0.3	3.50±0.3	4.30±0.3	1.00±0.4	5.16 REF	1.48 REF	2.82 REF	2.70 REF
FASCR132	9.50 Max	4.50±0.5	4.60±0.4	8.00±0.5	1.30±0.4	4.70 REF	2.04 REF	5.96 REF	2.41 REF

# AIR CPRE COIL FASCR0805,1008 SERIES



## FEATURES:

Air core inductors feature high Q and high current handling  
Low loss  
Low DCR

## APPLICATIONS:

Base Station  
LNA  
LNB  
Satellite

## GENERAL SPECIFICATIONS:

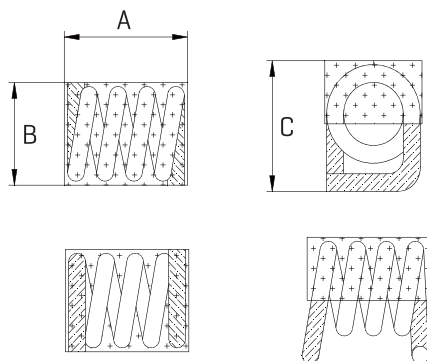
Rated current:0.32A to 1.2A  
Parameters Test Temp:25°C  
Test Frequency:100MHz  
Operating temperature:-40°C to +125°C  
Storage Temp:-0°C to +40°C  
Resistance to Soldering Heat:260°C for 10 sec  
Temperature Rise:40°C Typ. at Rated Current  
All parts meet ROHS compliance

## ELECTRICAL CHARACTERISTICS

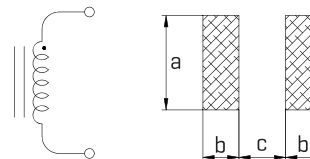
Part Number	Inductance [nH]	Q [Min]	Test Freq [MHz]	D.C.R (mohm) Max at 25°C	SRF [GHZ] Min	Rated current [A]Max
FASCR0805-3N9K	3.9±10%	80	300	260	3.00	1.20
FASCR0805-4N7K	4.7±10%	80	300	360	3.00	0.90
FASCR0805-5N6K	5.6±10%	80	300	370	3.00	0.95
FASCR0805-6N8K	6.8±10%	80	300	450	3.00	0.90
FASCR0805-8N2K	8.2±10%	80	300	530	3.00	0.84
FASCR0805-10NK	10±10%	70	300	540	3.00	0.90
FASCR0805-12NK	12±10%	70	300	630	3.00	0.90
FASCR0805-15NK	15±10%	70	300	720	2.50	0.90
FASCR0805-18NK	18±10%	70	300	12.5	2.50	0.50
FASCR0805-22NK	22±10%	70	300	12.9	2.40	0.55
FASCR0805-27NK	27±10%	70	300	14.5	1.60	0.55
FASCR0805-33NK	33±10%	70	300	18.7	1.60	0.50
FASCR0805-39NK	39±10%	70	300	25.7	1.50	0.38
FASCR0805-47NK	47±10%	70	300	34.5	1.50	0.32
FASCR0805-56NK	56±10%	70	300	38.4	1.30	0.32
FASCR0805-68NK	68±10%	70	300	42.2	1.30	0.32

Part Number	Inductance [nH]	Q [Min]	Test Freq [MHz]	D.C.R (mohm) Max at 25°C	SRF [GHZ] Min	Rated current [A]Max
FASCR1008-6N8K	6.8±10%	80	300	400	3.00	1.20
FASCR1008-8N2K	8.2±10%	80	300	500	3.00	0.95
FASCR1008-10NK	10±10%	70	300	600	3.00	0.95
FASCR1008-12NK	12±10%	70	300	650	3.00	0.90
FASCR1008-15NK	15±10%	70	300	730	2.50	0.90
FASCR1008-18NK	18±10%	70	300	960	2.50	0.84
FASCR1008-22NK	22±10%	70	300	10.8	2.40	0.84
FASCR1008-27NK	27±10%	70	300	13.9	1.60	0.60
FASCR1008-33NK	33±10%	70	300	19.5	1.60	0.50
FASCR1008-39NK	39±10%	70	300	21.6	1.50	0.50
FASCR1008-47NK	47±10%	70	300	25.2	1.50	0.47
FASCR1008-56NK	56±10%	70	300	27.5	1.30	0.47
FASCR1008-68NK	68±10%	70	300	37.1	1.30	0.38
FASCR1008-82NK	82±10%	70	300	51.5	1.00	0.32
FASCR1008-R10K	100±10%	70	300	55.5	1.00	0.32
FASCR1008-R12K	120±10%	70	300	63.4	0.95	0.32

## TECHNICAL INFORMATION:



## ELECTRICAL SCHEMATIC AND PAD LAYOUT:



### DIMENSIONS:MM

Part number	A	B	C	a	b	c
FASCR0805	2.85 Max	1.80 Max	2.10 Max	2.30 REF	1.02 REF	0.76 REF
FASCR1008	3.20 Max	1.90 Max	2.20 Max	2.80 REF	1.02 REF	1.27 REF