

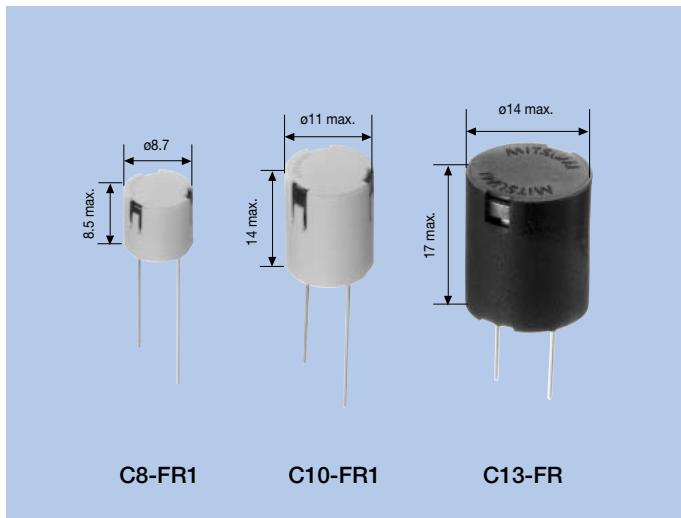
Power Inductors

CFR Series

Coils, Transformers

OUTLINE

Power inductors for preventing the diffusion of noises generated from power circuits and suppressing noise components coming through the power lines.



FEATURES

1. DC current available to maximum 9.0A (C13-FR).
2. Possible to indicate of winding start.
3. Radial taping.

APPLICATIONS

For power supplies of TVs VCRs, display monitors, computers and other units.

For power supplies of air conditioners, rice cooker, refrigerators, washing machines, cleaners, electric boilers & warmers and other equipment.

SPECIFICATIONS

Type	Inductance	Rated Current (A)	DC Resistance (Ω)	Operational Frequency (kHz)	Pcs/Reel
C8-FR1 Series	2.2μH~3.3mH	0.14~5.00 (L=2.2μH)	0.018~11.0 (L=3.3mH)	10~500	1,000
C10-FR1 Series	3.3μH~150mH	0.048~9.00 (L=3.3μH)	0.019~300 (L=150mH)	10~500	500
C13-FR Series	10μH~10mH	0.22~7.60 (L=10μH)	0.023~10.0 (L=10mH)	10~500	500

DATA LIST (C8-FR1 Series)

Distinctive Name	Marking	Inductance			Self Resonant Frequency (MHz) min.	DC Resistance (Ω) max.	Rated Current * (A)	
		(μH)	Tolerance (%)	Measured Frequency (kHz)			L	Temperature
DE	2R2	2.2	±20	1kHz	40	0.018	5.0	2.9
DG	3R3	3.3	±15	1kHz	34	0.021	4.5	2.7
DH	3R9	3.9	±15	1kHz	30	0.028	4.1	2.6
DJ	4R7	4.7	±15	1kHz	27	0.030	3.7	2.5
DK	5R6	5.6	±15	1kHz	23	0.032	3.4	2.4
DL	6R8	6.8	±15	1kHz	21	0.035	3.1	2.3
DM	8R2	8.2	±15	1kHz	19	0.038	2.6	2.1
EA	100	10	±10	1kHz	17	0.042	2.5	2.0
EB	120	12	±10	1kHz	15	0.057	2.3	1.9
EC	150	15	±10	1kHz	13	0.066	2.0	1.8
ED	180	18	±10	1kHz	12	0.071	1.8	1.6
EE	220	22	±10	1kHz	10	0.087	1.6	1.3
EF	270	27	±10	1kHz	9.0	0.14	1.4	1.2
EG	330	33	±10	1kHz	8.0	0.15	1.3	1.2
EH	390	39	±10	1kHz	7.1	0.17	1.2	1.1
EJ	470	47	±10	1kHz	6.5	0.18	1.1	1.0
EK	560	56	±10	1kHz	5.9	0.21	1.0	0.96
EL	680	68	±10	1kHz	5.4	0.24	0.91	0.90
EM	820	82	±10	1kHz	4.8	0.28	0.83	0.80
FA	101	100	±10	1kHz	4.4	0.32	0.75	0.72
FB	121	120	±10	1kHz	4.0	0.36	0.68	0.63
FC	151	150	±10	1kHz	3.6	0.44	0.61	0.57
FD	181	180	±10	1kHz	3.2	0.66	0.56	0.53
FE	221	220	±10	1kHz	2.9	0.73	0.50	0.50
FF	271	270	±10	1kHz	2.6	0.85	0.45	0.45
FG	331	330	±10	1kHz	2.4	1.1	0.41	0.41
FH	391	390	±10	1kHz	2.1	1.3	0.37	0.38
FJ	471	470	±10	1kHz	2.0	1.8	0.34	0.36
FK	561	560	±10	1kHz	1.8	1.9	0.31	0.33
FL	681	680	±10	1kHz	1.6	2.2	0.28	0.29
FM	821	820	±10	1kHz	1.4	2.9	0.25	0.26
GA	102	1,000	±10	1kHz	1.3	3.3	0.23	0.24
GB	122	1,200	±10	1kHz	1.2	4.4	0.21	0.22
GC	152	1,500	±10	1kHz	1.1	5.1	0.18	0.19
GD	182	1,800	±10	1kHz	1.0	5.8	0.16	0.16
GE	222	2,200	±10	1kHz	0.88	8.0	0.14	0.15
GF	272	2,700	±10	1kHz	0.79	9.5	0.14	0.13
GG	332	3,300	±10	1kHz	0.71	11.0	0.14	0.12

* Rated current (L value) : A current value obtained when the inductance value has dropped by 10% of the initial value in DC superimposition characteristic.

Rated current (temperature) : A current value where the temperature rise becomes 20°C when flowing a current at normal temperature.

DATA LIST (C10-FR1 Series)

Distinctive Name	Marking	Inductance			Self Resonant Frequency (MHz) min.	DC Resistance (Ω) max.	Rated Current * (A)	
		(μH)	Tolerance (%)	Measured Frequency (MHz)			L	Temperature
DG	3R3	3.3	±20	7.96	46	0.019	9.0	4.2
DH	3R9	3.9	±20	7.96	40	0.022	8.0	4.1
DJ	4R7	4.7	±20	7.96	38	0.024	7.1	4.0
DK	5R6	5.6	±20	7.96	34	0.025	6.7	3.8
DL	6R8	6.8	±20	7.96	30	0.028	6.3	3.4
DM	8R2	8.2	±20	7.96	24	0.031	5.5	3.3
EA	100	10	±10	2.52	19	0.034	4.7	3.2
EB	120	12	±10	2.52	16	0.038	4.4	2.8
EC	150	15	±10	2.52	12	0.042	4.3	2.6
ED	180	18	±10	2.52	9.2	0.046	3.9	2.4
EE	220	22	±10	2.52	8.6	0.061	3.4	2.1
EF	270	27	±10	2.52	7.1	0.069	3.0	2.0
EG	330	33	±10	2.52	6.8	0.078	2.7	1.9
EH	390	39	±10	2.52	6.7	0.085	2.5	1.8
EJ	470	47	±10	2.52	6.2	0.093	2.3	1.7
EK	560	56	±10	2.52	5.2	0.10	2.1	1.6
EL	680	68	±10	2.52	4.6	0.12	2.0	1.5
EM	820	82	±10	2.52	4.2	0.13	1.8	1.4
FA	101	100	±10	0.796	3.8	0.18	1.5	1.2
FB	121	120	±10	0.796	3.2	0.25	1.4	1.0
FC	151	150	±10	0.796	2.9	0.29	1.3	0.95
FD	181	180	±10	0.796	2.6	0.40	1.2	0.80
FE	221	220	±10	0.796	2.3	0.44	1.1	0.75
FF	271	270	±10	0.796	2.1	0.50	1.0	0.70
FG	331	330	±10	0.796	2.0	0.56	0.91	0.68
FH	391	390	±10	0.796	1.8	0.62	0.82	0.63
FJ	471	470	±10	0.796	1.7	0.84	0.77	0.57
FK	561	560	±10	0.796	1.5	0.93	0.70	0.52
FL	681	680	±10	0.796	1.4	1.0	0.66	0.48
FM	821	820	±10	0.796	1.3	1.4	0.52	0.42
GA	102	1,000	±5	0.252	1.2	1.8	0.49	0.41
GB	122	1,200	±5	0.252	0.87	1.8	0.49	0.41
GC	152	1,500	±5	0.252	0.83	2.7	0.40	0.30
GD	182	1,800	±5	0.252	0.75	3.0	0.37	0.29
GE	222	2,200	±5	0.252	0.70	3.9	0.33	0.25
GF	272	2,700	±5	0.252	0.67	4.3	0.32	0.24
GG	332	3,300	±5	0.252	0.56	5.8	0.30	0.21

* Rated current (L value) : A current value obtained when the inductance value has dropped by 10% of the initial value in DC superimposition characteristic.

Rated current (temperature) : A current value where the temperature rise becomes 20°C when flowing a current at normal temperature.

DATA LIST (C10-FR1 Series)

Distinctive Name	Marking	Inductance			Self Resonant Frequency (MHz) min.	DC Resistance (Ω) max.	Rated Current * (A)	
		(μH)	Tolerance (%)	Measured Frequency (MHz)			L	Temperature
GH	392	3,900	±5	0.252	540	6.4	0.28	0.20
GJ	472	4,700	±5	0.252	490	7.1	0.25	0.19
GK	562	5,600	±5	0.252	410	9.0	0.22	0.17
GL	682	6,800	±5	0.252	380	10	0.21	0.16
GM	822	8,200	±5	0.252	360	12	0.19	0.15
HA	103	10,000	±5	0.001	290	19	0.15	0.12
HB	123	12,000	±5	0.001	270	21	0.14	0.11
HC	153	15,000	±5	0.001	240	34	0.13	0.090
HD	183	18,000	±5	0.001	210	38	0.12	0.081
HE	223	22,000	±5	0.001	200	43	0.11	0.075
HF	273	27,000	±5	0.001	150	67	0.098	0.060
HG	333	33,000	±5	0.001	140	76	0.094	0.056
HH	393	39,000	±5	0.001	130	84	0.084	0.053
HJ	473	47,000	±5	0.001	120	96	0.075	0.050
HK	563	56,000	±5	0.001	100	170	0.072	0.036
HL	683	68,000	±5	0.001	95	200	0.071	0.035
HM	823	82,000	±5	0.001	88	210	0.063	0.033
JA	104	100,000	±5	0.001	85	240	0.058	0.031
JB	124	120,000	±5	0.001	70	260	0.053	0.030
JC	154	150,000	±5	0.001	69	300	0.048	0.028

* Rated current (L value) : A current value obtained when the inductance value has dropped by 10% of the initial value in DC superimposition characteristic.

Rated current (temperature) : A current value where the temperature rise becomes 20°C when flowing a current at normal temperature.

DATA LIST (C13-FR Series)

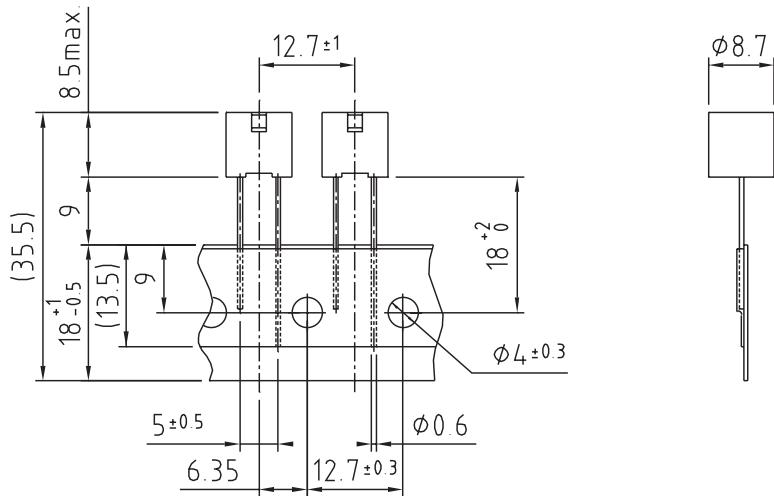
Distinctive Name	Marking	Inductance			Self Resonant Frequency (MHz) min.	DC Resistance (Ω) max.	Rated Current *	
		(μH)	Tolerance (%)	Measured Frequency (MHz)			(A)	
		L	Temperature					
EA	100	10	±10	2.52	19	0.023	7.6	4.5
EC	150	15	±10	2.52	12	0.028	6.2	4.0
EE	220	22	±10	2.52	7.6	0.035	4.9	3.4
EG	330	33	±10	2.52	6.9	0.043	4.1	3.2
EJ	470	47	±10	2.52	5.6	0.052	3.5	2.8
EL	680	68	±10	2.52	4.4	0.070	3.0	2.4
FA	101	100	±10	0.796	3.3	0.12	2.2	2.0
FC	151	150	±10	0.796	2.6	0.19	1.9	1.5
FE	221	220	±10	0.796	2.2	0.23	1.5	1.3
FG	331	330	±10	0.796	1.8	0.35	1.3	1.1
FJ	471	470	±10	0.796	1.5	0.43	1.1	0.90
FL	681	680	±10	0.796	1.2	0.61	0.95	0.80
GA	102	1,000	±5	0.252	1.0	1.2	0.74	0.60
GC	152	1,500	±5	0.252	0.83	1.8	0.60	0.45
GE	222	2,200	±5	0.252	0.70	2.2	0.51	0.40
GG	332	3,300	±5	0.252	0.60	3.4	0.41	0.33
GJ	472	4,700	±5	0.252	0.43	4.7	0.39	0.28
GL	682	6,800	±5	0.252	0.38	5.6	0.31	0.25
HA	103	10,000	±5	0.001	0.30	10	0.22	0.19

* Rated current (L value) : A current value obtained when the inductance value has dropped by 10% of the initial value in DC superimposition characteristic.

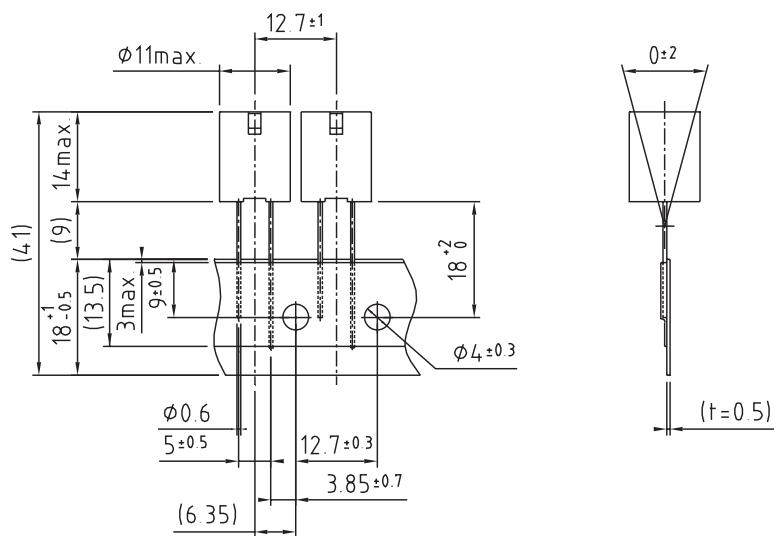
Rated current (temperature) : A current value where the temperature rise becomes 20°C when flowing a current at normal temperature.

DIMENSIONS

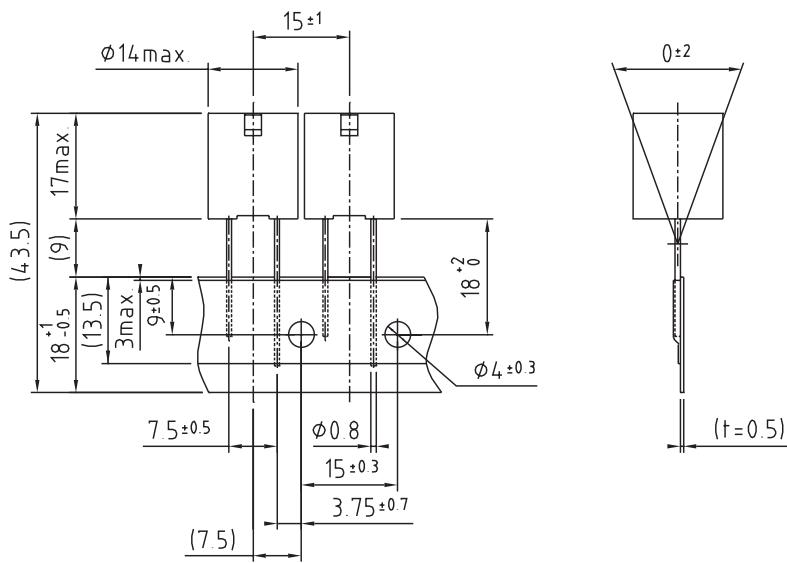
C8-FR1 Series



C10-FR1 Series



C13-FR Series



Unit : mm

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- The details listed here are not a guarantee of the individual products at the time of ordering. When using the products, you will be asked to check their specifications.