

Flat-Pac™ FP family high current, high frequency power inductor selection matrix



Inductor Family	Part Number	Dimension (mm max)	OCL (nH)	I _{rms} (amps) for 40°C Temperature Rise	I _{sat} (amps) for 20% Inductance Drop		DCR (mΩ)
					25°C	125°C	
FP0705R1-R	FP0705R1-R07-R	7 x 7 x 4.95	72	43	65	50	0.25±10%
	FP0705R1-R10-R	7 x 7 x 4.95	105	43	44	36	0.25±10%
	FP0705R1-R12-R	7 x 7 x 4.95	120	43	37	30	0.25±10%
	FP0705R1-R15-R	7 x 7 x 4.95	150	43	30	24	0.25±10%
	FP0705R1-R18-R	7 x 7 x 4.95	180	43	25	20	0.25±10%
	FP0705R1-R22-R	7 x 7 x 4.95	220	43	20	16	0.25±10%
FP0705R2-R	FP0705R2-R07-R	7 x 7 x 4.95	72	38	65	50	0.32±9.4%
	FP0705R2-R10-R	7 x 7 x 4.95	105	38	44	36	0.32±9.4%
	FP0705R2-R12-R	7 x 7 x 4.95	120	38	37	30	0.32±9.4%
	FP0705R2-R15-R	7 x 7 x 4.95	150	38	30	24	0.32±9.4%
	FP0705R2-R18-R	7 x 7 x 4.95	180	38	25	20	0.32±9.4%
	FP0705R2-R22-R	7 x 7 x 4.95	220	38	20	16	0.32±9.4%
FP0705R3-R	FP0705R3-R07-R	7 x 7 x 4.95	72	32	65	50	0.46±6.5%
	FP0705R3-R10-R	7 x 7 x 4.95	105	32	44	36	0.46±6.5%
	FP0705R3-R12-R	7 x 7 x 4.95	120	32	37	30	0.46±6.5%
	FP0705R3-R15-R	7 x 7 x 4.95	150	32	30	24	0.46±6.5%
	FP0705R3-R18-R	7 x 7 x 4.95	180	32	25	20	0.46±6.5%
	FP0705R3-R22-R	7 x 7 x 4.95	220	32	20	16	0.46±6.5%
FP0708R1-R	FP0708R1-R07-R	8.5 x 7.0 x 7.2	72	44	90	72	0.35±8.6%
	FP0708R1-R09-R	8.5 x 7.0 x 7.2	90	44	75	60	0.35±8.6%
	FP0708R1-R10-R	8.5 x 7.0 x 7.2	105	44	68	54	0.35±8.6%
	FP0708R1-R12-R	8.5 x 7.0 x 7.2	120	44	59	47	0.35±8.6%
	FP0708R1-R15-R	8.5 x 7.0 x 7.2	150	44	47	37	0.35±8.6%
	FP0708R1-R19-R	8.5 x 7.0 x 7.2	190	44	37	29	0.35±8.6%
FP0805R1-R	FP0805R1-R03-R	7.49 x 7.62 x 4.96	32	65	110	95	0.17±17%
	FP0805R1-R06-R	7.49 x 7.62 x 4.96	58	65	83	61	0.17±17%
	FP0805R1-R07-R	7.49 x 7.62 x 4.96	72	65	67	49	0.17±17%
	FP0805R1-R10-R	7.49 x 7.62 x 4.96	100	65	50	35	0.17±17%
	FP0805R1-R20-R	7.49 x 7.62 x 4.96	200	65	20	16	0.17±17%
FP0807R1-R	FP0807R1-R07-R	7.4 x 7.6 x 7	70	49	108	79	0.50±6%
	FP0807R1-R10-R	7.4 x 7.6 x 7	100	49	77	55	0.50±6%
	FP0807R1-R12-R	7.4 x 7.6 x 7	120	49	66	48	0.50±6%
	FP0807R1-R16-R	7.4 x 7.6 x 7	160	49	48	36	0.50±6%
	FP0807R1-R18-R	7.4 x 7.6 x 7	180	49	42	32	0.50±6%
	FP0807R1-R20-R	7.4 x 7.6 x 7	200	49	38	28	0.50±6%
	FP0807R1-R22-R	7.4 x 7.6 x 7	220	49	35	25	0.50±6%
FP1005R1-R	FP1005R1-R08-R	7 x 10.2 x 4.95	85	53	90	64	0.39±7.7%
	FP1005R1-R10-R	7 x 10.2 x 4.95	100	53	73	57	0.39±7.7%
	FP1005R1-R12-R	7 x 10.2 x 4.95	120	53	60	48	0.39±7.7%
	FP1005R1-R15-R	7 x 10.2 x 4.95	150	53	47	37	0.39±7.7%
	FP1005R1-R22-R	7 x 10.2 x 4.95	220	53	33	26	0.39±7.7%



Inductor Family	Part Number	Dimension (mm max)	OCL (nH)	I _{rms} (amps) for 40°C Temperature Rise	I _{sat} (amps) for 20% Inductance Drop		DCR (mΩ)
					25°C	125°C	
FP1005R2-R	FP1005R2-R08-R	7 x 10.2 x 4.95	85	50	90	64	0.47±6.7%
	FP1005R2-R10-R	7 x 10.2 x 4.95	100	50	73	57	0.47±6.7%
	FP1005R2-R12-R	7 x 10.2 x 4.95	120	50	60	48	0.47±6.7%
	FP1005R2-R15-R	7 x 10.2 x 4.95	150	50	47	37	0.47±6.7%
	FP1005R2-R22-R	7 x 10.2 x 4.95	220	50	33	26	0.47±6.7%
FP1005R3-R	FP1005R3-R08-R	7 x 10.2 x 4.95	85	45	90	64	0.55±5.4%
	FP1005R3-R10-R	7 x 10.2 x 4.95	100	45	73	57	0.55±5.4%
	FP1005R3-R12-R	7 x 10.2 x 4.95	120	45	60	48	0.55±5.4%
	FP1005R3-R15-R	7 x 10.2 x 4.95	150	45	47	37	0.55±5.4%
	FP1005R3-R22-R	7 x 10.2 x 4.95	220	45	33	26	0.55±5.4%
FP1006R1-R	FP1006R1-R08-R	8 x 10.2 x 6	85	53	100	70	0.27 ± 12%
	FP1006R1-R10-R	8 x 10.2 x 6	100	53	85	64	0.27 ± 12%
	FP1006R1-R12-R	8 x 10.2 x 6	120	53	71	53	0.27 ± 12%
	FP1006R1-R16-R	8 x 10.2 x 6	160	53	55	40	0.27 ± 12%
	FP1006R1-R22-R	8 x 10.2 x 6	220	53	38	28	0.27 ± 12%
FP1006R2-R	FP1006R2-R08-R	8 x 10 x 6	85	45	100	70	0.36 ± 8.6%
	FP1006R2-R10-R	8 x 10 x 6	100	45	85	64	0.36 ± 8.6%
	FP1006R2-R12-R	8 x 10 x 6	120	45	71	53	0.36 ± 8.6%
	FP1006R2-R16-R	8 x 10 x 6	160	45	55	40	0.36 ± 8.6%
	FP1006R2-R22-R	8 x 10 x 6	220	45	38	28	0.36 ± 8.6%
FP1007R1-R	FP1007R1-R12-R	8 x 10.4 x 7	120	60	81	65	0.29 ±10%
	FP1007R1-R14-R	8 x 10.4 x 7	140	60	72	56	0.29 ±10%
	FP1007R1-R17-R	8 x 10.4 x 7	170	60	58	46	0.29 ±10%
	FP1007R1-R22-R	8 x 10.4 x 7	215	60	50	36	0.29 ±10%
	FP1007R1-R30-R	8 x 10.4 x 7	300	60	32	26	0.29 ±10%
FP1007R2-R	FP1007R2-R12-R	8 x 10.4 x 6.5	120	51	81	65	0.48 ±8%
	FP1007R2-R14-R	8 x 10.4 x 6.5	140	51	72	56	0.48 ±8%
	FP1007R2-R17-R	8 x 10.4 x 6.5	170	51	58	46	0.48 ±8%
	FP1007R2-R22-R	8 x 10.4 x 6.5	215	51	50	36	0.48 ±8%
	FP1007R2-R30-R	8 x 10.4 x 6.5	300	51	32	26	0.48 ±8%
FP1007R3-R	FP1007R3-R12-R	8 x 10 x 7.5	120	61	94	86	0.29 ±8%
	FP1007R3-R15-R	8 x 10 x 7.5	150	61	76	70	0.29 ±8%
	FP1007R3-R17-R	8 x 10 x 7.5	170	61	66	60	0.29 ±8%
	FP1007R3-R22-R	8 x 10 x 7.5	215	61	50	43	0.29 ±8%
	FP1007R3-R23-R	8 x 10 x 7.5	230	61	48	40	0.29 ±8%
	FP1007R3-R27-R	8 x 10 x 7.5	270	61	40	34	0.29 ±8%
FP1105R1-R	FP1105R1-R10-R	8 x 11 x 4.9	100	46	81	63	0.35 ± 8.6%
	FP1105R1-R12-R	8 x 11 x 4.9	120	46	66	50	0.35 ± 8.6%
	FP1105R1-R15-R	8 x 11 x 4.9	150	46	54	42	0.35 ± 8.6%
	FP1105R1-R20-R	8 x 11 x 4.9	192	46	42	34	0.35 ± 8.6%
	FP1105R1-R22-R	8 x 11 x 4.9	226	46	39	28	0.35 ± 8.6%
FP1107R1-R	FP1107R1-R07-R	7.2 x 11 x 7.5	70	55	140	123	0.29±10%
	FP1107R1-R12-R	7.2 x 11 x 7.5	120	55	90	72	0.29±10%
	FP1107R1-R15-R	7.2 x 11 x 7.5	150	55	70	56	0.29±10%
	FP1107R1-R23-R	7.2 x 11 x 7.5	230	55	45	36	0.29±10%
	FP1107R1-R30-R	7.2 x 11 x 7.5	300	55	35	28	0.29±10%
	FP1107R1-R40-R	7.2 x 11 x 7.5	400	55	25	20	0.29±10%
FP1107R1-R51-R	7.2 x 11 x 7.5	510	55	18	14.5	0.29±10%	

Inductor Family	Part Number	Dimension (mm max)	OCL (nH)	I _{rms} (amps) for 40°C Temperature Rise	I _{sat} (amps) for 20% Inductance Drop		DCR (mΩ)
					25°C	125°C	
FP1107R2-R	FP1107R2-R07-R	7.2 x 11 x 7.2	70	42	140	123	0.47±6.4%
	FP1107R2-R12-R	7.2 x 11 x 7.2	120	42	90	72	0.47±6.4%
	FP1107R2-R15-R	7.2 x 11 x 7.2	150	42	70	56	0.47±6.4%
	FP1107R2-R23-R	7.2 x 11 x 7.2	230	42	45	36	0.47±6.4%
	FP1107R2-R30-R	7.2 x 11 x 7.2	300	42	35	28	0.47±6.4%
	FP1107R2-R40-R	7.2 x 11 x 7.2	400	42	25	20	0.47±6.4%
	FP1107R2-R51-R	7.2 x 11 x 7.2	510	42	18	14.5	0.47±6.4%
FP1109-R*	FP1109-R20-R	11.2 x 11.2 x 9.0	205	35	69	52	0.42 ± 10%
	FP1109-R23-R	11.2 x 11.2 x 9.0	247	35	55	41	0.42 ± 10%
	FP1109-R27-R	11.2 x 11.2 x 9.0	270	35	51	38	0.42 ± 10%
	FP1109-R33-R	11.2 x 11.2 x 9.0	311	35	44	33	0.42 ± 10%
	FP1109-R47-R	11.2 x 11.2 x 9.0	463	35	27	20	0.42 ± 10%
	FP1109-R58-R	11.2 x 11.2 x 9.0	548	35	22.5	17	0.42 ± 10%
	FP1109-1R0-R	11.2 x 11.2 x 9.0	950	35	11.5	8.5	0.42 ± 10%
FP1308R1-R	FP1308R1-R11-R	12.70 x 13.46 x 8.0	110	57	120	105	0.32 ± 9.4%
	FP1308R1-R21-R	12.70 x 13.46 x 8.0	210	57	80	68	0.32 ± 9.4%
	FP1308R1-R26-R	12.70 x 13.46 x 8.0	260	57	64	52	0.32 ± 9.4%
	FP1308R1-R32-R	12.70 x 13.46 x 8.0	320	57	52	40	0.32 ± 9.4%
	FP1308R1-R44-R	12.70 x 13.46 x 8.0	440	57	37	28	0.32 ± 9.4%
FP1308R2-R	FP1308R2-R11-R	12.70 x 13.46 x 8.0	110	45	120	105	0.53 ± 10%
	FP1308R2-R21-R	12.70 x 13.46 x 8.0	210	45	80	68	0.53 ± 10%
	FP1308R2-R26-R	12.70 x 13.46 x 8.0	260	45	64	52	0.53 ± 10%
	FP1308R2-R32-R	12.70 x 13.46 x 8.0	320	45	52	40	0.53 ± 10%
	FP1308R2-R44-R	12.70 x 13.46 x 8.0	440	45	37	28	0.53 ± 10%
FP1308R3-R	FP1308R3-R11-R	12.70 x 13.46 x 8.0	110	68	120	105	0.18 ± 20%
	FP1308R3-R21-R	12.70 x 13.46 x 8.0	210	68	80	68	0.18 ± 20%
	FP1308R3-R26-R	12.70 x 13.46 x 8.0	260	68	64	52	0.18 ± 20%
	FP1308R3-R32-R	12.70 x 13.46 x 8.0	320	68	52	40	0.18 ± 20%
	FP1308R3-R44-R	12.70 x 13.46 x 8.0	440	68	37	28	0.18 ± 20%
HCP0704-R	HCP0704-R40-R	6.8X6.8X4.2	0.4	17	27		3.2±10%
	HCP0704-R60-R	6.8X6.8X4.2	0.6	14	21		4.5±10%
	HCP0704-1R0-R	6.8X6.8X4.2	1.0	12	17		6.2±10%
	HCP0704-1R8-R	6.8X6.8X4.0	1.8	8.5	13		11.0±10%
	HCP0704-2R3-R	6.8X6.8X4.0	2.3	7.5	11.5		16.5±10%
	HCP0704-3R3-R	6.8X6.8X4.0	3.3	6	9.5		25.0±10%
	HCP0704-4R7-R	6.8X6.8X4.0	4.7	5	8		29.5±10%
HCP0805-R	HCP0805-R40-R	7.6x7.9x5.0	0.4	20	32		3.1±6%
	HCP0805-R68-R	7.6x7.9x5.0	0.68	17.5	25		4.5±6%
	HCP0805-1R0-R	7.6x7.9x5.0	1.0	14.5	22		5.8±6%
	HCP0805-1R5-R	7.6x7.9x5.0	1.5	13.3	18		6.8±6%
	HCP0805-2R2-R	7.6x7.9x5.0	2.2	10	14		11.2±6%

* FP1109 I_{sat} is for 30% rolloff.

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