

- Features:
- Low profile for space requirements
 - Provides low RDC and large current handling
 - Provides magnetic shielding against radiation
 - For inductance values outside those listed in the datasheet contact factory
 - Find environmental information and packaging specifications in related supplemental documents

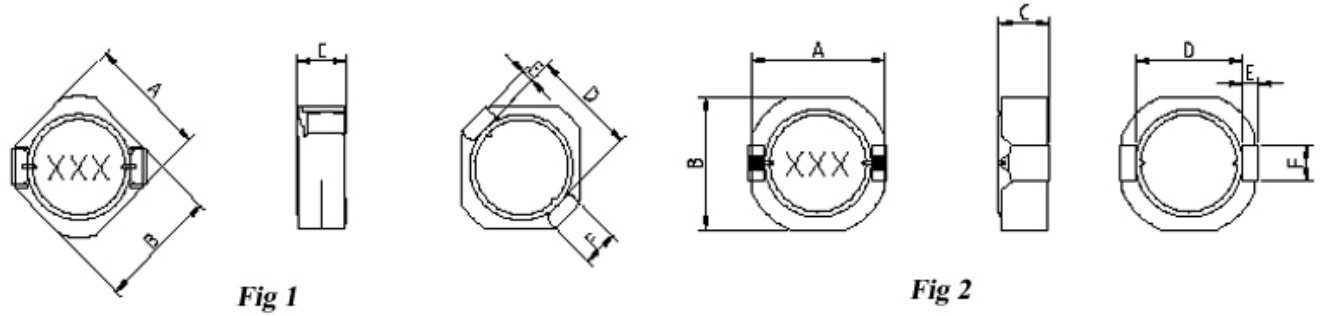


- Applications:
- OA equipment
 - Portable communication devices
 - DC/DC converters
 - Notebook PC's
 - Power supplies

Inductance and Current Ranges		
Type	Inductance	Current Ranges
SFM0518	1.2 - 47 μ H	1.80 - 0.33 A
SFM0520	1.2 - 100 μ H	2.15 - 0.23 A
SFM0620	1.0 - 47 μ H	3.48 - 0.50 A
SFM0630	1.0 - 150 μ H	3.59 - 0.31 A
SFM1268	1.7 - 680 μ H	7.70 - 0.55 A

How to Order

SEI Type		Dimensions		Tolerance		Packaging	Inductance	
SFM		0518		M		T	101	
Type	Description	Code	Dimensions (mm)	Code	Tolerance		Code	Inductance
SFM	SMD Power Inductor	0518	5.2 x 5.2 x 1.8	M	\pm 20%		1R1	1.1 μ H
		0520	5.2 x 5.2 x 2.0	N	\pm 30%		470	47 μ H
		0620	6.3 x 6.2 x 2.0				101	100 μ H
		0630	6.3 x 6.2 x 3.0					
		1268	12.8 x 12.8 x 6.8					



Mechanical Specifications								
Type / Code	Figure	A max.	B max.	C max.	D	E	F	Units
SFM0518	1	0.205 5.2	0.205 5.2	0.071 1.8	0.165 4.2	0.024 0.6	0.055 1.4	inches mm
SFM0520	1	0.205 5.2	0.205 5.2	0.079 2.0	0.165 4.2	0.024 0.6	0.055 1.4	inches mm
SFM0620	2	0.248 6.3	0.244 6.2	0.079 2.0	0.189 4.8	0.024 0.6	0.079 2.0	inches mm
SFM0630	2	0.248 6.3	0.244 6.2	0.118 3.0	0.189 4.8	0.024 0.6	0.079 2.0	inches mm
SFM1268	2	0.504 12.8	0.504 12.8	0.268 6.8	0.335 8.5	0.079 2.0	0.118 3.0	inches mm

Electrical Characteristics – SFM0518					
Type / Code	L (μH)	Test Freq (Hz)	Tolerance (%)	DCR (Ω) Max	I DC (A) Max
SFM0518MT1R2	1.2	100 KHz	20	0.054	1.80
SFM0518MT1R8	1.8	100 KHz	20	0.065	1.60
SFM0518MT2R3	2.3	100 KHz	20	0.076	1.50
SFM0518MT3R6	3.6	100 KHz	20	0.097	1.20
SFM0518MT4R3	4.3	100 KHz	20	0.110	1.10
SFM0518MT5R1	5.1	100 KHz	20	0.130	1.00
SFM0518MT6R8	6.8	100 KHz	20	0.150	0.94
SFM0518MT100	10	100 KHz	20	0.220	0.80
SFM0518MT150	15	100 KHz	20	0.325	0.64
SFM0518MT180	18	100 KHz	20	0.380	0.56
SFM0518MT220	22	100 KHz	20	0.540	0.49
SFM0518MT330	33	100 KHz	20	0.770	0.41
SFM0518MT470	47	100 KHz	20	1.120	0.33

Electrical Characteristics – SFM0520						
Type / Code	L (μH)	Test Freq (Hz)	Tolerance (%)	DCR (Ω) Max	I sat (A) Max	I rms (A) Max
SFM0520MT1R2	1.2	100 KHz	20	0.037	2.15	2.29
SFM0520MT2R2	2.2	100 KHz	20	0.049	1.63	1.64
SFM0520MT3R5	3.5	100 KHz	20	0.061	1.34	1.45
SFM0520MT4R7	4.7	100 KHz	20	0.072	1.14	1.22
SFM0520MT6R8	6.8	100 KHz	20	0.084	0.95	1.10
SFM0520MT100	10	100 KHz	20	0.125	0.76	0.87
SFM0520MT150	15	100 KHz	20	0.175	0.63	0.72
SFM0520MT220	22	100 KHz	20	0.230	0.56	0.66
SFM0520MT330	33	100 KHz	20	0.375	0.44	0.48
SFM0520MT470	47	100 KHz	20	0.605	0.36	0.35
SFM0520MT680	68	100 KHz	20	0.780	0.30	0.33
SFM0520MT101	100	100 KHz	20	1.250	0.23	0.24

Electrical Characteristics SFM0620						
Type / Code	L (μH)	Test Freq (Hz)	Tolerance (%)	DCR (Ω) Max	I sat (A) Max	I rms (A) Max
SFM0620MT1R0	1.0	100 KHz	20	0.014	3.50	3.48
SFM0620MT1R5	1.5	100 KHz	20	0.017	2.94	2.99
SFM0620MT2R0	2.0	100 KHz	20	0.024	2.47	2.33
SFM0620MT3R3	3.3	100 KHz	20	0.039	1.99	1.97
SFM0620MT4R7	4.7	100 KHz	20	0.055	1.59	1.54
SFM0620MT6R2	6.2	100 KHz	20	0.062	1.49	1.45
SFM0620MT8R2	8.2	100 KHz	20	0.085	1.25	1.23
SFM0620MT100	10.0	100 KHz	20	0.098	1.22	1.09
SFM0620MT120	12.0	100 KHz	20	0.128	0.99	1.10
SFM0620MT150	15.0	100 KHz	20	0.149	0.94	0.82
SFM0620MT180	18.0	100 KHz	20	0.172	0.83	0.90
SFM0620MT220	22.0	100 KHz	20	0.211	0.80	0.74
SFM0620MT270	27.0	100 KHz	20	0.275	0.65	0.65
SFM0620MT330	33.0	100 KHz	20	0.306	0.63	0.61
SFM0620MT390	39.0	100 KHz	20	0.394	0.55	0.56
SFM0620MT470	47.0	100 KHz	20	0.452	0.50	0.52

Electrical Characteristics – SFM0630						
Type / Code	L (μ H)	Test Freq (Hz)	Tolerance (%)	DCR (Ω) Max	I sat (A) Max	I rms (A) Max
SFM0630MT1R0	1	100 KHz	20	0.011	3.59	4.03
SFM0630MT1R5	1.5	100 KHz	20	0.013	2.93	3.63
SFM0630MT2R2	2.2	100 KHz	20	0.016	2.42	3.30
SFM0630MT3R6	3.6	100 KHz	20	0.021	1.89	2.82
SFM0630MT4R7	4.7	100 KHz	20	0.027	1.66	2.45
SFM0630MT6R2	6.2	100 KHz	20	0.032	1.45	2.20
SFM0630MT100	10	100 KHz	20	0.049	1.14	1.77
SFM0630MT120	12	100 KHz	20	0.052	1.04	1.70
SFM0630MT150	15	100 KHz	20	0.062	0.93	1.55
SFM0630MT180	18	100 KHz	20	0.074	0.85	1.41
SFM0630MT220	22	100 KHz	20	0.095	0.77	1.23
SFM0630MT270	27	100 KHz	20	0.120	0.70	1.08
SFM0630MT330	33	100 KHz	20	0.140	0.63	0.99
SFM0630MT390	39	100 KHz	20	0.150	0.58	0.95
SFM0630MT470	47	100 KHz	20	0.185	0.53	0.84
SFM0630MT560	56	100 KHz	20	0.220	0.48	0.76
SFM0630MT680	68	100 KHz	20	0.270	0.44	0.69
SFM0630MT820	82	100 KHz	20	0.330	0.40	0.61
SFM0630MT101	100	100 KHz	20	0.415	0.36	0.54
SFM0630MT151	150	100 KHz	20	0.615	0.31	0.42

Electrical Characteristics – SFM1268						
Type / Code	L (μ H)	Test Freq (Hz)	Tolerance (%)	DCR (Ω) Max	I sat (A) Max	I rms (A) Max
SFM1268NT1R7	1.7	100 KHz	20	0.010	11.80	7.70
SFM1268NT2R7	2.7	100 KHz	20	0.011	9.00	7.00
SFM1268NT3R9	3.9	100 KHz	20	0.014	7.90	6.00
SFM1268NT5R6	5.6	100 KHz	20	0.016	6.80	5.60
SFM1268NT7R5	7.5	100 KHz	20	0.017	5.70	5.10
SFM1268MT100	10	100 KHz	20	0.023	5.50	4.40
SFM1268MT120	12	100 KHz	20	0.027	5.00	4.00
SFM1268MT150	15	100 KHz	20	0.032	4.50	3.60
SFM1268MT180	18	100 KHz	20	0.040	4.10	3.20
SFM1268MT220	22	100 KHz	20	0.046	3.60	2.90
SFM1268MT270	27	100 KHz	20	0.050	3.20	2.80
SFM1268MT330	33	100 KHz	20	0.064	3.00	2.40
SFM1268MT390	39	100 KHz	20	0.074	2.70	2.20
SFM1268MT470	47	100 KHz	20	0.082	2.40	2.10
SFM1268MT560	56	100 KHz	20	0.105	2.00	1.90
SFM1268MT680	68	100 KHz	20	0.120	1.70	1.70
SFM1268MT820	82	100 KHz	20	0.145	1.60	1.60
SFM1268MT101	100	100 KHz	20	0.170	1.50	1.40
SFM1268MT121	120	100 KHz	20	0.185	1.30	1.30
SFM1268MT151	150	100 KHz	20	0.235	1.20	1.20
SFM1268MT181	180	100 KHz	20	0.290	1.10	1.10
SFM1268MT221	220	100 KHz	20	0.350	1.00	1.00
SFM1268MT271	270	100 KHz	20	0.415	0.93	0.92
SFM1268MT331	330	100 KHz	20	0.495	0.83	0.83
SFM1268MT391	390	100 KHz	20	0.610	0.76	0.77
SFM1268MT471	470	100 KHz	20	0.705	0.67	0.70
SFM1268MT561	560	100 KHz	20	0.900	0.62	0.64
SFM1268MT681	680	100 KHz	20	1.120	0.55	0.58