

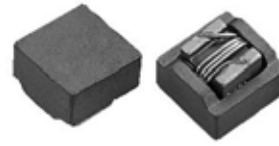


SMDFSR1008PS SERIES

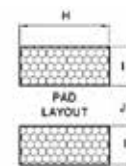
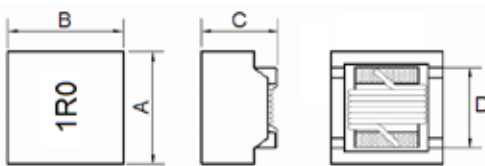
SHIELDED POWER CHIP INDUCTORS

Applications :

- Personal computers, HDDS.
- Communication Products.
- Other various electronic appliances



Shape and Dimensions (Dimensions are in mm) :



Item	A Max.	B Max.	C Max.	D
1008PS	3.81	3.81	2.94	2.54

Item	H	I	J
1008PS	2.54	1.02	1.27

Features :

- Miniature SMD power chip inductors.
- Economical alternative to large power inductors.
- Ideal for use at switching frequencies from 50kHz to 1 MHz.
- Magnetically shielded against radiation.

Product Identification :

SMD FS R 1008 PS – 1R0 M
 (1) (2) (3) (4) (5) (6) (7)

- (1) Type : **Surface Mount Devices.**
 (2) Material : **FS** : Ferrite with Sn/Ag wraparound.
 (3) Packaging **R** : Tape and Reel.
 (4) Dimension : **L**=0.1 Inch **W**=0.08 Inch.
 (5) **PS**: Shield Power inductors
 (6) Inductance : **1R0** for **1.0** uH.
 (7) Inductance tolerance : **K**:±10%;**M**:±20%.

Characteristics:

- Rated Current: It is either the inductance is 10% lower than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever is lower.
- Operating temp: -40°C to 85°C .

Test equipments :

- L&Q: Agilent 4285A Precision LCR Meter.
- SRF: Agilent E4991A RF Impedance analyzer with Agilent 16197A test fixture.
- DCR: Milli-ohm meter.
- Electrical specifications at 25°C .



● **SMDFSR1008PS series**

Part No.	Inductanc L (uH)	Tole. (±%)	Q Typ.	Test Freq. (MHz) L&Q	SRF (MHz) Typ.	DCR (Ω) Max.	Rated Current (A)
SMDFSR1008PS-1R0□	1.0	10, 20	26	0.1&1	344	0.05	3.00
SMDFSR1008PS-1R5□	1.5	10, 20	26	0.1&1	260	0.08	2.80
SMDFSR1008PS-1R8□	1.8	10, 20	28	0.1&1	225	0.09	2.10
SMDFSR1008PS-2R7□	2.7	10, 20	30	0.1&1	185	0.14	1.50
SMDFSR1008PS-3R9□	3.9	10, 20	30	0.1&1	172	0.29	1.20
SMDFSR1008PS-4R7□	4.7	10, 20	30	0.1&1	157	0.35	1.10
SMDFSR1008PS-5R6□	5.6	10, 20	30	0.1&1	150	0.39	1.10
SMDFSR1008PS-6R8□	6.8	10, 20	30	0.1&1	110	0.58	0.90
SMDFSR1008PS-100□	10	10, 20	30	0.1&1	95	0.75	0.82
SMDFSR1008PS-150□	15	10, 20	30	0.1&1	75	1.15	0.70
SMDFSR1008PS-220□	22	10, 20	33	0.1&1	30	1.40	0.65
SMDFSR1008PS-330□	33	10, 20	33	0.1&1	21	1.61	0.52
SMDFSR1008PS-390□	39	10, 20	33	0.1&1	18	1.85	0.46
SMDFSR1008PS-470□	47	10, 20	33	0.1&1	15	2.20	0.43
SMDFSR1008PS-680□	68	10, 20	33	0.1&1	12	3.80	0.33
SMDFSR1008PS-820□	82	10, 20	33	0.1&1	10	4.30	0.32

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.