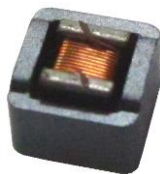


Cautions and Warnings

Please be noted that this spec is only for reference if you have projects designed with the product number listed in. If you are looking for new project design-in, please find BWPS Series specification/datasheet on Chilisin website. Or you may find our sales contact for more information on old part number at your convenience. Appreciated your attention and understanding.

Note: Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

PS Series



PS series is the newest shielding type ferrite wire wound chip inductor. This wire wound ferrite construction provides extremely low DCR and high rating current.

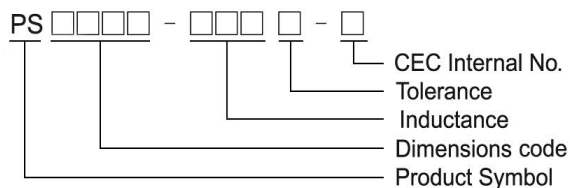
Features

- RoHS compliant
- Shielded power inductors
- Specially designed ferrite cover provides magnetic shielding
- Best possible surface for pick and place handling

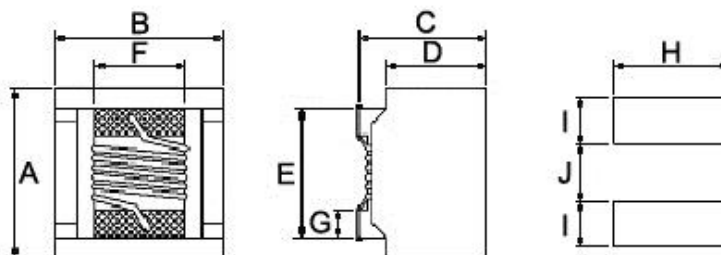
Applications

- Notebook computers
- PC cards
- Wireless communication
- Handheld devices

Product Identification



Shape and Dimensions / Recommended Pattern



Dimensions in mm

TYPE	A Max	B Max	C Max	D	E	F	G	H	I	J	
PS1008	3.81	3.81	2.94	3.05	2.20	2.54	2.03	0.51	2.54	1.02	1.27

C : 2.94⁺⁰ mm at 1R0~331/ 561~102
3.05⁺⁰ mm at 471

SMD Wire Wound Power Chip Inductors – PS Series

Electrical Characteristics

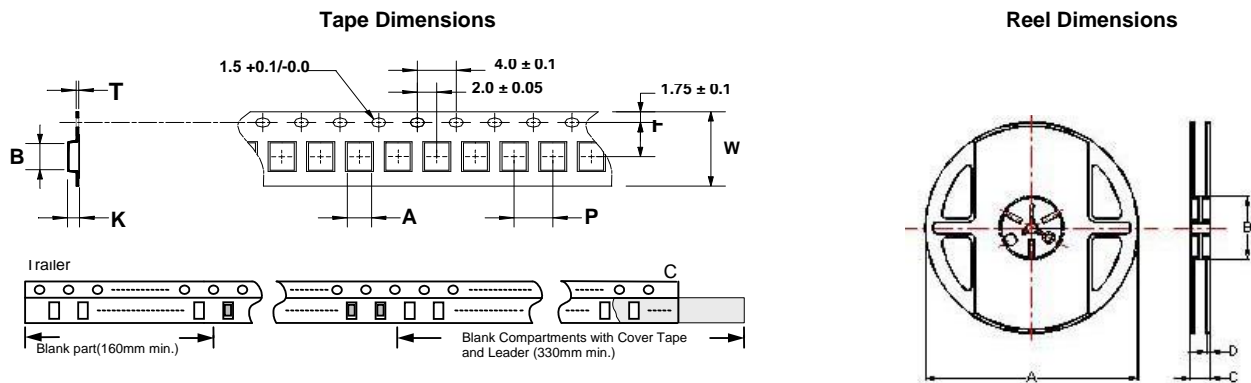
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	Q Typ.	Test Frequency (MHz)	SRF (MHz) Typ.	RDC (Ω) Max	IDC (A)
PS1008-1R0□-N	1.0	20 / 10	0.1	26	1	344	0.05	3.0
PS1008-1R5□-N	1.5	20 / 10	0.1	26	1	260	0.08	2.8
PS1008-1R8□-N	1.8	20 / 10	0.1	28	1	225	0.09	2.1
PS1008-2R7□-N	2.7	20 / 10	0.1	30	1	185	0.14	1.5
PS1008-3R9□-N	3.9	20 / 10	0.1	30	1	172	0.29	1.2
PS1008-4R7□-N	4.7	20 / 10	0.1	30	1	157	0.35	1.1
PS1008-5R6□-N	5.6	20 / 10	0.1	30	1	150	0.39	1.1
PS1008-6R8□-N	6.8	20 / 10	0.1	30	1	110	0.58	0.9
PS1008-100□-N	10	20 / 10	0.1	30	1	95	0.75	0.82
PS1008-150□-N	15	20 / 10	0.1	30	1	75	1.15	0.70
PS1008-220□-N	22	20 / 10	0.1	33	1	30	1.40	0.65
PS1008-330□-N	33	20 / 10	0.1	33	1	21	1.61	0.52
PS1008-390□-N	39	20 / 10	0.1	33	1	18	1.85	0.46
PS1008-470□-N	47	20 / 10	0.1	33	1	15	2.20	0.43
PS1008-680□-N	68	20 / 10	0.1	33	1	12	3.80	0.33
PS1008-820□-N	82	20 / 10	0.1	33	1	10	4.30	0.32
PS1008-101□-N	100	20 / 10	0.1	33	1	8	4.80	0.31
PS1008-121□-N	120	20 / 10	0.1	33	1	8	5.0	0.25
PS1008-151□-N	150	20 / 10	0.1	33	1	5.8	6.5	0.24
PS1008-221□-N	220	20 / 10	0.1	33	1	5.5	12.0	0.22
PS1008-331□-N	330	20 / 10	0.1	33	1	3.8	17.0	0.20
PS1008-471□-N	470	20 / 10	0.1	33	1	3.1	19.0	0.16
PS1008-561□-N	560	20 / 10	0.1	33	1	2.8	18.4	0.13
PS1008-681□-N	680	20 / 10	0.1	33	1	2.5	24.0	0.12
PS1008-821□-N	820	20 / 10	0.1	23	1	2.0	26.0	0.10
PS1008-102□-N	1000	20 / 10	0.1	20	1	1.5	29.2	0.10

Note: When ordering, please specify tolerance code. Tolerance : K=±10% , M=±20%

- Operating temperature range - 40°C ~ 105°C(Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current
- Measure Equipment :
 - L : Agilent HP4285A
 - Q : Agilent HP4291A
 - SRF : Agilent HP4291A
 - RDC : HP4338B or Chroma 16502
 - IDC : CHEN HWA1061+301A

SMD Wire Wound Power Chip Inductors - PS Series

Packaging Specifications



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS / REEL
	A	B	T	W	P	F	K	A	B	C	D	
PS 1008	3.85	3.85	0.25	12	8	5.5	2.85	178	60	16	1.4	750