



SMD Wire Wound Ferrite Chip Inductors - HPS Series-CA

FEATURES

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

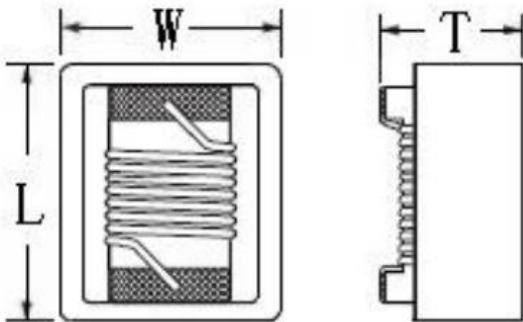


ORDERING CODE(标志示例)

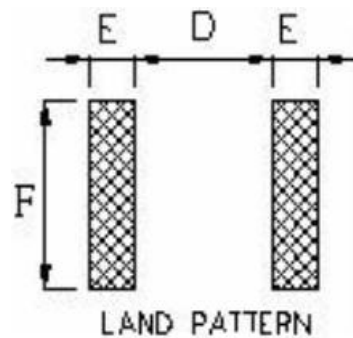
HPS □□□□ - □□□ □ - **CA**
(1) (2) (3) (4) (5)

- (1) HPS 向华料号 Part Number
(2) 尺寸 Dimensions
(3) 电感量 Inductance
(4) 电感量公差 Inductance Tolerance
(5) 尾码 Tail code

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	L(MAX)	W(MAX)	T(MAX)	E Typ.	F Typ.	D Typ.
HPS1008-CA	3.81	3.81	2.74	1.02	2.54	1.27
HPS1812-CA	5.87	4.98	4.2	1.14	3.05	3.00



SMD Wire Wound Ferrite Chip Inductors - HPS1008 Series-CA

HPS1008 series Electrical Characteristics

Part No.	Inductance (μH)	Tolerance ($\pm\%$)	Test Freq. (MHz)	Q Min	SRF (MHz)Min	RDC (Ω)Max	IDC (A)max
HPS1008-1R0□-CA	1.0	10,20	1	22	254	0.06	3.00
HPS1008-2R7□-CA	2.7	10,20	1	22	150	0.22	1.70
HPS1008-4R7□-CA	4.7	10,20	1	22	120	0.35	1.20
HPS1008-100□-CA	10	10,20	1	25	105	0.92	0.84

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

- Saturation DC current: Inductance drop approximately 30% of L0 at Isat.
- Operating temp.: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Storage temp.: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ R.H.: 65% Max
- Moisture sensitivity level (MSL) 2 (1 year floor life at $<30^{\circ}\text{C}/65\%$ relative humidity)



SMD Wire Wound Ferrite Chip Inductors - HPS1812 Series-CA

HPS1812 series Electrical Characteristics

Part No.	Inductance (μH)	Tolerance ($\pm\%$)	Test Freq. (MHz)	Q Min	SRF (MHz)Min	RDC (Ω)Max	IDC (A)max
HPS1812-2R2 \square -CA	2.2	10,20	1	35	170	0.10	1.70
HPS1812-4R7 \square -CA	4.7	10,20	1	35	140	0.11	1.15
HPS1812-100 \square -CA	10	10,20	1	35	70	0.17	0.71
HPS1812-331 \square -CA	330	10,20	1	18	6	5.50	0.15
HPS1812-471 \square -CA	470	10,20	1	16	4	6.90	0.12
HPS1812-561 \square -CA	560	10,20	1	40	3	6.10	0.11

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

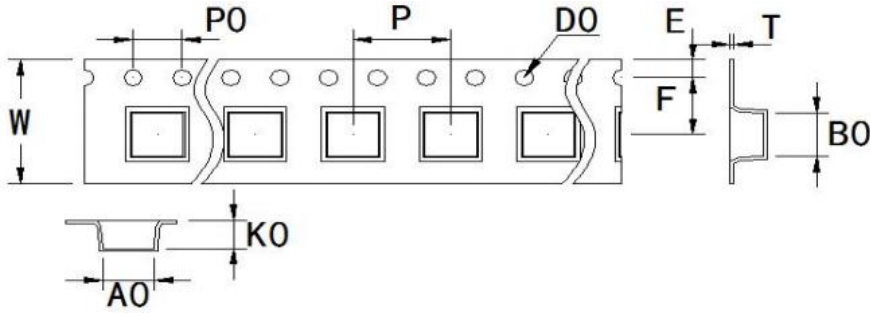
- Saturation DC current: Inductance drop approximately 30% of L0 at Isat.
- Operating temp.: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Storage temp.: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ R.H.: 65% Max
- Moisture sensitivity level (MSL) 2 (1 year floor life at $<30^{\circ}\text{C}/65\%$ relative humidity)



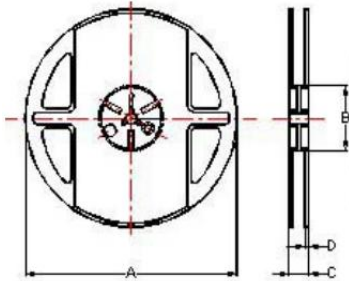
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Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions				Quantity PCS/REEL
	W	A0	B0	K0	P	T	E	F	D0	P0	A	B	C	D	
HPS1008-CA	12	5.40	5.40	2.4	8.0	0.35	1.75	5.5	1.5	4.00	178	60	16	1.4	2000
HPS1812-CA	12	5.20	6.0	4.0	8.0	0.35	1.75	5.5	1.5	4.00	178	60	16	1.4	1500