

PSE Series



Is designed for Low profile type. with Low RDC and large current its magnetic shielded type for high – density mounting allows for reliable mounting

onto the board. This series also provides working – frequency up to 1MHz Application.

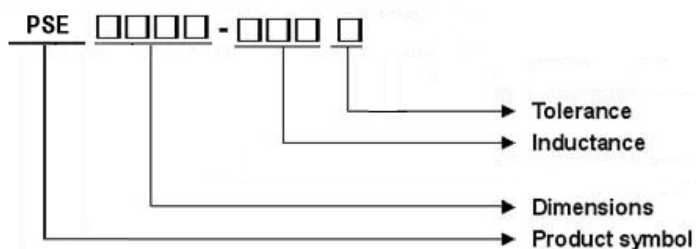
Features

- RoHS compliant
- Low Rdc and high saturation current generic use for portable DC to DC converter line
- High magnetic shield construction should actualize high resolution for EMC protection.
- Support lead-free soldering.

Applications

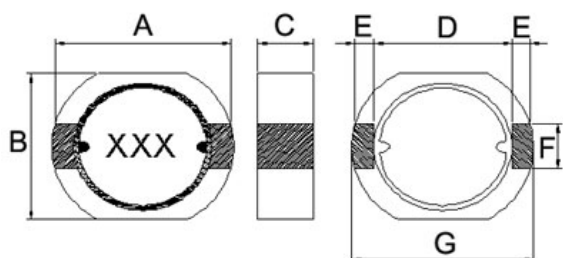
- Note PC
- Set top box
- LCD TV
- LCD displays, etc.
- Portable communication equipment.
- DC/DC converters, etc.

Product Identification

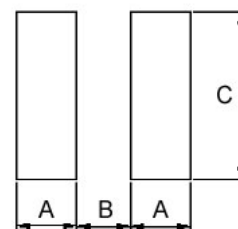


- EX:PSE0740-4R7M

Shapes and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	G
PSE0725	7.5 ±0.3	7.4±0.3	2.5Max.	5.6	1.2	2.5	8.7Max.
PSE0740	7.5 ±0.3	7.4±0.3	4.0Max.	5.6	1.2	2.5	9.2Max.

Dimensions in mm

TYPE	A	B	C
PSE0725	1.5	5.4	2.8
PSE0740	1.5	5.4	2.8

Standard Specifications

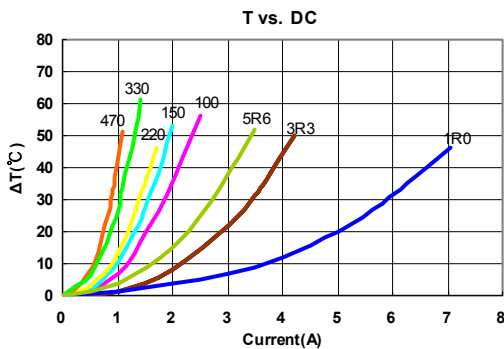
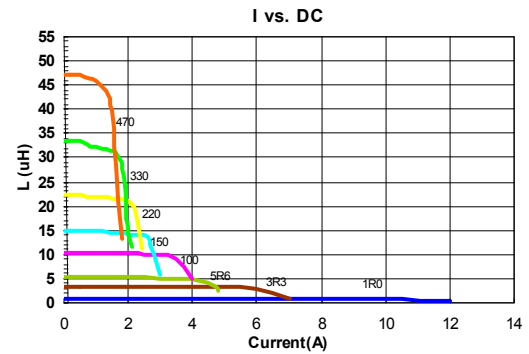
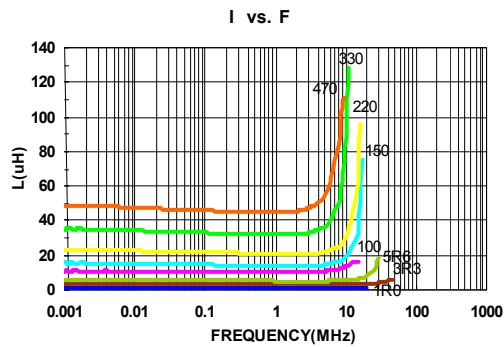
Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (KHz)	RDC (mΩ) Max	Isat (A)	Irms (A)
PSE0725 -1R0 □	1.0	30	100	14.28	8.3	6.22
PSE0725 -1R5 □	1.5	30	100	19.70	7.2	5.00
PSE0725 -2R2 □	2.2	30	100	24.09	5.4	4.40
PSE0725 -3R3 □	3.3	30	100	41.20	4.4	3.70
PSE0725 -4R7 □	4.7	30	100	49.70	4.0	3.20
PSE0725 -5R6 □	5.6	20,30	100	58.90	3.9	2.90
PSE0725 -6R8 □	6.8	20,30	100	66.30	3.5	2.70
PSE0725 -100 □	10	20,30	100	92.40	2.8	1.90
PSE0725 -150 □	15	20,30	100	170.0	2.3	1.70
PSE0725 -220 □	22	20,30	100	210.0	1.5	1.52
PSE0725 -330 □	33	20,30	100	320.0	1.4	1.10
PSE0725 -470 □	47	20,30	100	490.0	1.2	0.95

Test Freq.(L): 100KHz , 1V

- When ordering, please specify tolerance and packaging codes.
- Tolerance : M = $\pm 20\%$ / T = $\pm 30\%$
- Isat : Inductance drop $\leq 30\%$
- Irms : current when the temperature rising $\Delta T : 40^\circ\text{C}$ Typ.
- Test Instrument : L: HP4284A.+Aglient 16334A
IDC :HP4284A+HP42841A

RDC :CHROMA WILLIOHM METER MODE 16502

Irms: Agilent 6641 SYSTEM DC POWER SUPPLY



Standard Specifications

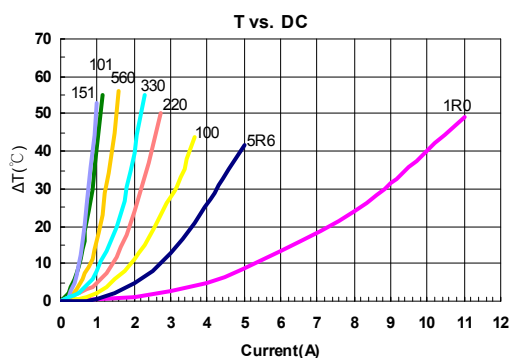
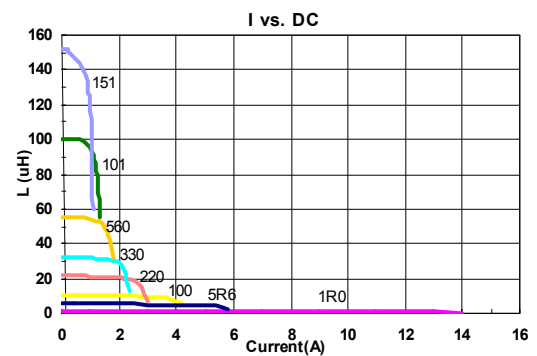
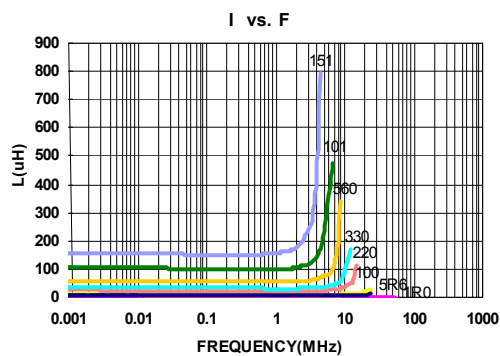
Part Number	Inductance (μ H)	Tolerance ($\pm\%$)	Test Frequency (KHz)	RDC ($m\Omega$) Max	Isat (A)	Irms (A)
PSE0740 -1R0 □	1.0	30	100	6.38	12.0	9.00
PSE0740 -1R5 □	1.5	30	100	8.64	10.0	8.00
PSE0740 -1R8 □	1.8	30	100	9.60	8.60	7.92
PSE0740 -2R5 □	2.5	30	100	13.6	7.20	7.40
PSE0740 -3R3 □	3.3	30	100	17.8	6.80	6.70
PSE0740 -4R7 □	4.7	20,30	100	26.6	4.60	4.90
PSE0740 -5R6 □	5.6	20,30	100	29.0	4.10	4.60
PSE0740 -6R8 □	6.8	20,30	100	34.0	3.90	3.90
PSE0740 -100 □	10	20,30	100	55.6	3.40	3.25
PSE0740 -150 □	15	20,30	100	74.4	3.00	2.70
PSE0740 -220 □	22	20,30	100	98.1	2.40	2.40
PSE0740 -330 □	33	20,30	100	140	2.00	1.90
PSE0740 -470 □	47	20,30	100	217	1.70	1.48
PSE0740 -560 □	56	20,30	100	260	1.50	1.33
PSE0740 -680 □	68	20,30	100	310	1.36	1.20
PSE0740 -820 □	82	20,30	100	360	1.20	1.12
PSE0740 -101 □	100	20,30	100	480	1.12	0.95
PSE0740 -121 □	120	20,30	100	560	1.00	0.89
PSE0740 -151 □	150	20,30	100	710	0.92	0.82

Test Freq.(L): 100KHz , 1V

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- Irms : current when the temperature rising $\Delta T : 40^\circ\text{C}$ Typ.
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IDC :HP4284A+HP42841A

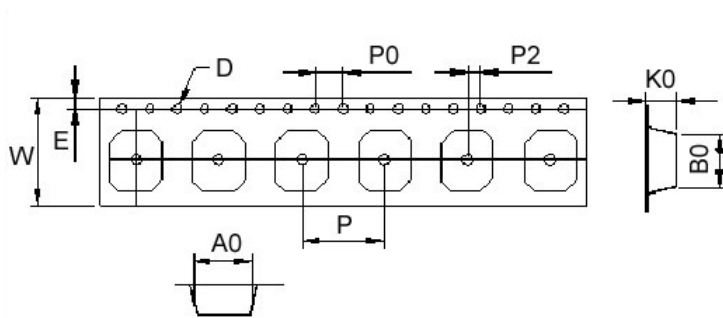
RDC :CHROMA WILLIOHM METER MODE 16502

Irms: Agilent 6641 SYSTEM DC POWER SUPPLY

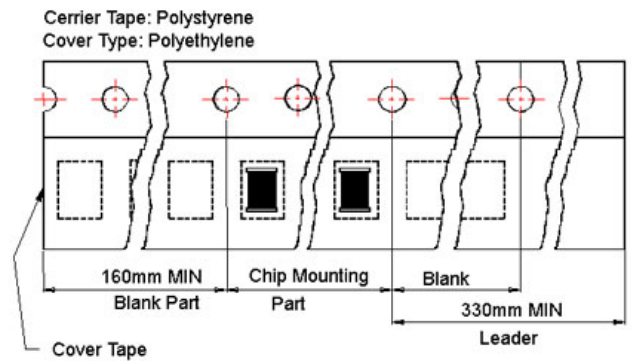


Packaging Specifications

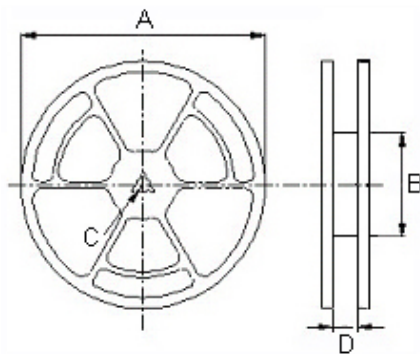
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
PSE0725	7.6	8.65	2.8	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
PSE0740	7.6	9.0	4.3	1.55	1.75	16	12	4	2	330	100	13	17.4	1000