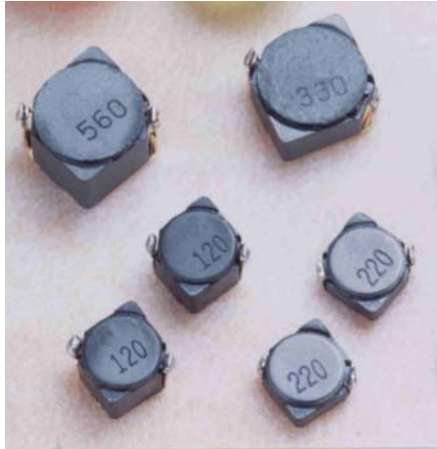


XWP-TCRD TYPE SMD POWER INDUCTOR

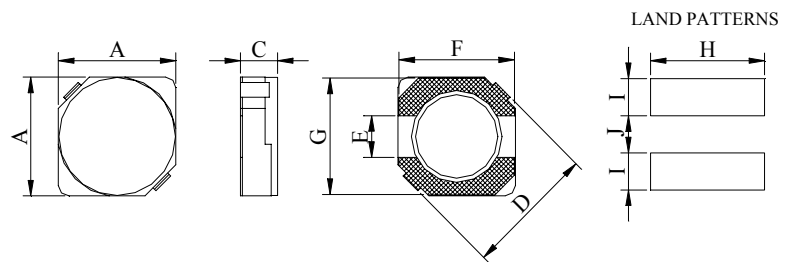


FEATURE:

- Ultra low profile.
- Magnetically shielded and low radiation.
- Ferrite bobbin core and compact size.
- Low core loss for high frequency power application.
- Large terminal surface for good PCB bonding.

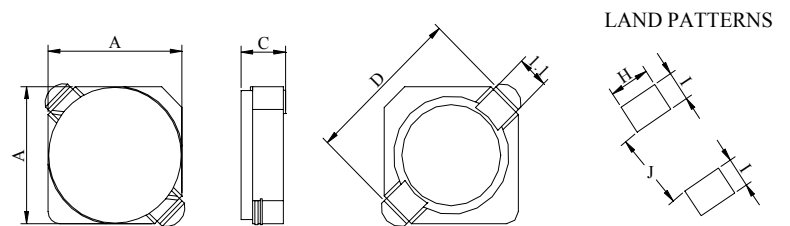
SHAPES&DIMENSION:

Unit:mm



SHAPES&DIMENSION FOR XWP-TCRD316L:

Unit:m

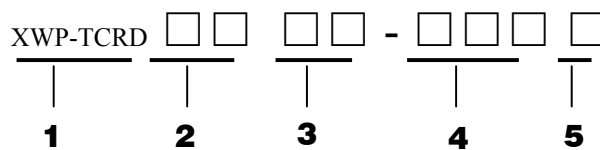


APPLICATION

- DC/DC converter
- LCD monitor
- Notebook PC
- Power supply for VTR
- Digital camera
- Portable terminal equipment
- OA equipment

Part No.	A	C	D	E	F	G	H	I	J
XWP-TCRD316	4.0MAX	1.9MAX	4.8MAX	1.1	3.8	3.8	4.3	1.6	1.2
XWP-TCRD316L	4.0MAX	1.8MAX	4.4MAX	-	-	-	1.5	1.4	2.4
XWP-TCRD418	5.0MAX	2.0MAX	6.9MAX	1.5	4.5	4.5	5.3	1.9	1.5
XWP-TCRD428	5.0MAX	3.0MAX	6.9MAX	1.5	4.5	4.5	5.3	1.9	1.5
XWP-TCRD518	6.0MAX	2.0MAX	8.2MAX	2.0	5.5	5.5	6.3	2.15	2.0
XWP-TCRD528	6.0MAX	3.0MAX	8.2MAX	2.0	5.5	5.5	6.3	2.15	2.0
XWP-TCRD628	7.0MAX	3.0MAX	9.5MAX	2.0	6.5	6.5	7.3	2.65	2.0
XWP-TCRD638	7.0MAX	4.0MAX	9.5MAX	2.0	6.5	6.5	7.3	2.65	2.0

PART NUMBERING SYSTEM:



- 1) PRODUCT SYMBOL
- 2) OUTSIDE DIA :m/m
- 3) BODY HEIGHT :m/m
- 4) INDUCTANCE :μH
- 5) TOLERANCE :K 10%, L 15%, M 20%, N 30%

XWP-TCRD TYPE SMD POWER INDUCTOR

STANDARD SPECIFICATION

Part No.	Inductance L(μH)	DCR(mΩ)Max.(Typ.)							Rated D.C. Current(A)Max.						
		XWP-TCRD 316/L	XWP-TCRD 418	XWP-TCRD 428	XWP-TCRD 518	XWP-TCRD 528	XWP-TCRD 628	XWP-TCRD 638	XWP-TCRD 316/L	XWP-TCRD 418	XWP-TCRD 428	XWP-TCRD 518	XWP-TCRD 528	XWP-TCRD 628	XWP-TCRD 638
1R0	1.0	45(35)							1.72						
1R2	1.2	27.5(21)		24(18)					1.90		2.56				
1R5	1.5	52(40)							1.55						
1R8	1.8	28(21)							2.20						
2R2	2.2	72(55)	75(58)	31(23)					1.20	1.32	2.04				
2R6	2.6	18(13)							2.60						
2R7	2.7	105(80)		43(32)					1.28		1.60				
3R0	3	24(18)			24(18)				2.40			3.00			
3R3	3.3	85(65)	110(85)	49(36.5)				20(15)		1.10	1.04	1.57		3.5	
3R9	3.9	155(120)		65(48)					27(20)		0.88		1.44		
4R1	4.1	57(42)							1.95						
4R2	4.2	31(23)							2.20						
4R7	4.7	105(80)	162(125)	72(53)					0.90	0.84	1.32				
5R0	5.0	31(23)					24(18)		2.40			2.9			
5R3	5.3	38(28)							1.90						
5R4	5.4	76(56)							1.60						
5R6	5.6	170(130)		100(75)					0.80		1.17				
6R0	6.0	35(26)							2.25						
6R2	6.2	96(71)			45(33)		27(20)		1.40		1.80				
6R8	6.8	170(130)	200(155)	109(81)					0.73	0.76	1.12		2.5		
7R3	7.3	54(40)							2.10						
7R4	7.4	31(23)							2.3						
8R2	8.2	245(190)		117(87)			53(39)		0.68		1.04		1.60		
8R6	8.6	58(43)							1.85						
8R7	8.7	34(25)							2.2						
8R9	8.9	116(86)							1.25						
100	10	210(160)	200(148)	128(95)	124(92)	65(48)	65(48)	38(28)	0.55	0.61	1.00	1.20	1.30	1.70	2.0
120	12	210(256)		131(98)	153(113)	76(56)	70(52)	53(39)	0.56		0.84	1.10	1.20	1.55	1.7
150	15	295(225)	240(178)	149(110)	196(145)	103(76)	84(62)	57(42)	0.45	0.50	0.76	0.97	1.10	1.40	1.6
180	18	338(250)		166(123)	210(155)	110(82)	95(70)	92(68)	0.48		0.72	0.85	1.00	1.32	1.5
220	22	430(330)	397(294)	235(174)	290(215)	122(90)	128(95)	96(71)	0.40	0.41	0.70	0.80	0.90	1.20	1.3
270	27	441(327)		261(193)	330(245)	175(130)	142(105)	109(81)	0.35		0.58	0.75	0.85	1.05	1.2
330	33	675(520)	694(514)	331(254)	385(285)	189(140)	165(122)	124(92)	0.32	0.32	0.56	0.65	0.75	0.97	1.1
390	39	709(525)		383(284)	520(385)	212(157)	210(156)	138(102)	0.30		0.50	0.57	0.70	0.86	1.0
470	47	780(650)	922(683)	587(435)	595(440)	250(185)	238(176)	155(115)	0.24	0.28	0.48	0.54	0.62	0.80	0.95
560	56	1008(800)		624(462)	665(493)	305(226)	277(205)	202(150)	0.26		0.41	0.50	0.58	0.73	0.85
680	68	1430(1200)	1300(1000)	699(520)	840(622)	355(263)	304(255)	234(173)	0.22	0.24	0.35	0.43	0.52	0.65	0.75
820	82	1560(1200)		914(678)	978(725)	463(343)	390(290)	324(240)	0.22		0.32	0.41	0.46	0.60	0.70
101	100	1820(1560)	1730(1330)	1002(766)	1200(895)	520(385)	535(397)	358(265)	0.17	0.20	0.29	0.36	0.42	0.54	0.65
121	120	2390(1840) 1270(977)							0.18 0.27						
151	150	2670(2050) 1350(1008)							0.15 0.24						
181	180	4000(3050) 1540(1230)							0.14 0.22						
222	2200	6300(5800)							0.036						

1. Test Freq.(L)

XWP-TCRD316/L, XWP-TCRD428 (100KHz 0.25V) ;

XWP-TCRD418 1.0μH~8.2μH (7.96MHz 0.25V) ; 10~180μH (100KHz 0.25V);

XWP-TCRD518, XWP-TCRD528, XWP-TCRD628, XWP-TCRD638 (10KHz 0.25V) ;

2. Tolerance of Inductance: 1.0~180 μ H±30%(N) 1000 μ H±20%(M)

3. Operating temperature -40°C to +85°C.

4. The rated current indicates the current when the inductance decreases to 65% over its nominal value or D.C. current when the temperature rising Δt=30°C lower, whichever is lower.