



Semi-Shielded SMD Power Inductor

TPI4Oxx Series



千如電子集團
ABC ELECTRONICS GROUP.

AOBA Technology (M) Sdn. Bhd.

INTRODUCTION

The TPI series are characterized by low profile, and high current power inductor used in cellular phone, HDD, DVC, DSC, PDA, LCD display, and other electronic equipment. Several dimensions are available.

FEATURES

- Small and low profile inductor.
- High current performance.
- High magnetic shield construction should actualize high resolution.
- Available for automatic mounting in tape and reel package.

PART NUMBER

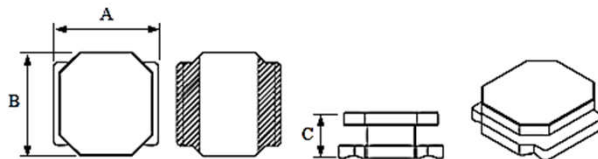
TPI 4018 C T 1R0 N - □□

1 2 3 taping 4 5 6

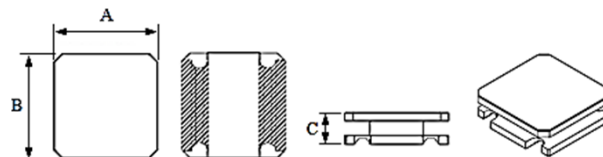
1 Product Type

2 Shape & Dimension

4018



4025



Size	A	B	C
TPI4018	(0.157 ± 0.008) 4.00 ± 0.20	(0.157 ± 0.008) 4.00 ± 0.20	(0.074 max.) 1.88 max. (R82~2R7) (0.071 max.) 1.80 max. (3R3~221)
TPI4025	(0.157 ± 0.008) 4.00 ± 0.20	(0.157 ± 0.008) 4.00 ± 0.20	(0.098 max.) 2.50 max.

(inch)
mm

3 Coating Type

C : Coating

4 Inductance

R82 = 0.82uH 1R0 = 1.0uH 100 = 10uH 101 = 100uH

5 Tolerance

M = ±20% N = ±30%

6 Internal Code

TPI40xx Series

TPI4018 Series

Part No.	Inductance (uH)	Test Freq.	Tolerance	DC Resistance (mΩ)		Rated DC Current (A)		Marking
				Max.	Typ.	Idc1	Idc2	
TPI4018CT R82 □-□□	0.82	100KHz, 1V	N	21	16	4.20	4.00	R82
TPI4018CT 1R0 □-□□	1.0	100KHz, 1V	N	25	19	4.70	3.70	1R0
TPI4018CT 1R2 □-□□	1.2	100KHz, 1V	N	27	21	4.00	3.50	1R2
TPI4018CT 1R5 □-□□	1.5	100KHz, 1V	N	35	27	3.50	3.10	1R5
TPI4018CT 2R2 □-□□	2.2	100KHz, 1V	M	44	37	3.00	2.90	2R2
TPI4018CT 2R7 □-□□	2.7	100KHz, 1V	M	52	43	2.40	2.30	2R7
TPI4018CT 3R3 □-□□	3.3	100KHz, 1V	M	66	55	2.30	2.20	3R3
TPI4018CT 4R7 □-□□	4.7	100KHz, 1V	M	84	70	2.00	1.90	4R7
TPI4018CT 6R8 □-□□	6.8	100KHz, 1V	M	118	98	1.60	1.50	6R8
TPI4018CT 100 □-□□	10	100KHz, 1V	M	180	150	1.40	1.30	100
TPI4018CT 150 □-□□	15	100KHz, 1V	M	264	220	1.10	1.00	150
TPI4018CT 220 □-□□	22	100KHz, 1V	M	348	290	0.95	0.90	220
TPI4018CT 330 □-□□	33	100KHz, 1V	M	552	460	0.75	0.70	330
TPI4018CT 470 □-□□	47	100KHz, 1V	M	780	650	0.62	0.60	470
TPI4018CT 680 □-□□	68	100KHz, 1V	M	1128	940	0.50	0.50	680
TPI4018CT 101 □-□□	100	100KHz, 1V	M	1596	1330	0.45	0.42	101
TPI4018CT 151 □-□□	150	100KHz, 1V	M	2400	2000	0.35	0.32	151
TPI4018CT 221 □-□□	220	100KHz, 1V	M	3552	2960	0.30	0.28	221

1. Inductance is measured in HP-4285A Precision LCR Meter.
2. RDC is measured in HP 4338B milliohm meter or equivalent.
3. Tolerance : M = ±20%, N = ±30% (Table shows stock tolerance in □).
4. Idc1 : Based on inductance change ($\Delta L/L_o$: ≤-30%).
5. Idc2 : Based on temperature rise (ΔT : 40°C typ.).

TPI40xx Series

TPI4025 Series

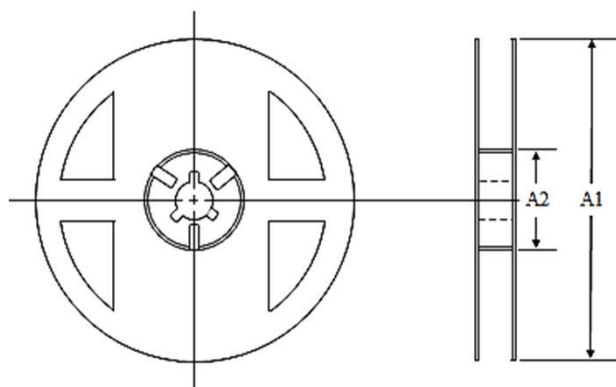
Part No.	Inductance (uH)	Test Freq.	Tolerance	DC Resistance (mΩ)		Rated DC Current (A)		Marking
				Max.	Typ.	Idc1	Idc2	
TPI4025CT 1R0 □-□□	1.0	100KHz, 1V	N	16	12	3.00	3.00	1R0
TPI4025CT 1R2 □-□□	1.2	100KHz, 1V	N	23	18	2.75	2.75	1R2
TPI4025CT 2R2 □-□□	2.2	100KHz, 1V	N	29	22	2.10	2.10	2R2
TPI4025CT 3R3 □-□□	3.3	100KHz, 1V	M	36	30	1.60	1.60	3R3
TPI4025CT 4R7 □-□□	4.7	100KHz, 1V	M	48	40	1.40	1.40	4R7
TPI4025CT 6R8 □-□□	6.8	100KHz, 1V	M	84	70	1.20	1.20	6R8
TPI4025CT 100 □-□□	10	100KHz, 1V	M	102	85	0.97	0.97	100
TPI4025CT 150 □-□□	15	100KHz, 1V	M	144	120	0.77	0.77	150
TPI4025CT 220 □-□□	22	100KHz, 1V	M	234	195	0.67	0.67	220
TPI4025CT 330 □-□□	33	100KHz, 1V	M	366	305	0.50	0.50	330
TPI4025CT 470 □-□□	47	100KHz, 1V	M	594	495	0.40	0.40	470
TPI4025CT 680 □-□□	68	100KHz, 1V	M	852	710	0.35	0.35	680
TPI4025CT 101 □-□□	100	100KHz, 1V	M	1200	1000	0.30	0.30	101
TPI4025CT 151 □-□□	150	100KHz, 1V	M	1920	1600	0.22	0.22	151
TPI4025CT 221 □-□□	220	100KHz, 1V	M	2760	2300	0.20	0.20	221

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4. Idc1 : Based on inductance change ($\Delta L/L_0$: ≤-30%).
5. Idc2 : Based on temperature rise (ΔT : 40°C typ.).

TPI40xx Series

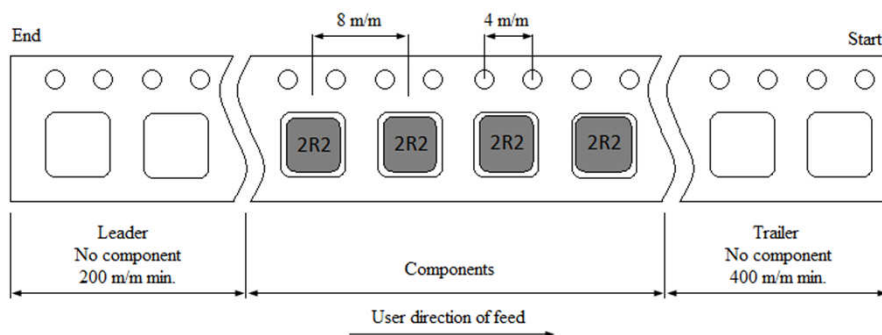
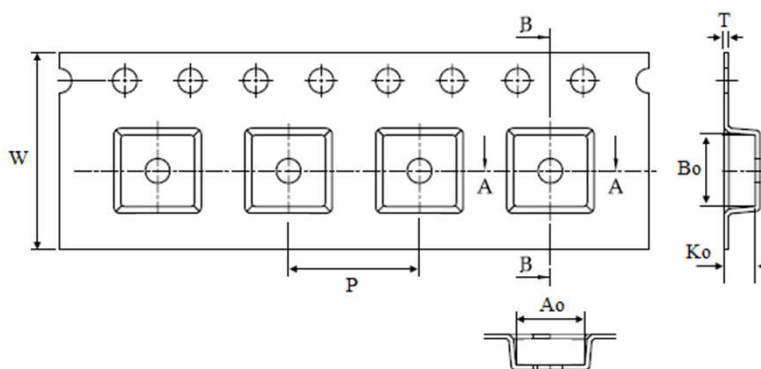
(unit : m/m)

Type	Pcs/Reel	Reel"	A1	A2
4018	3,000	13"	330	99
4025	3,000	13"	330	99



(unit : m/m)

Type		4018	4025
Chip Cavity	Ao	4.50	4.20
	Bo	4.35	4.20
Insert Pitch	P	8.00	8.00
Tape Thickness	Ko	1.90	2.75
	T	0.25	0.30
Tape Width	W	12.00	12.00



Recommended Footprint (unit : m/m)

Type	A	B	C
4018	4.55	3.60	1.50
4025	4.55	3.60	1.50

Recommended Pattern

