

Features/特徴

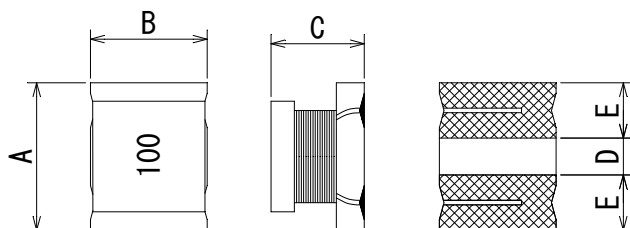
- Small size and low profile.
小型・低背タイプ。
- The winding section is coated with adhesive, ensuring high reliability and mechanical strength.
接着剤を用い巻線部をコーティング、高信頼で機械的強度が高い。



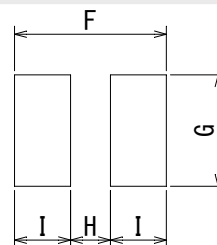
Applications/用途

- Variety of DC-DC converter inductor applications.
種々のDC-DC コンバータに応用出来ます。

Dimensions



Recommended Pattern



Series Name	Dimensions								
	A	B	C	D	E	F	G	H	I
TZNS322520FJ	3.2±0.3	2.5±0.3	2.0±0.3	1.3 Typ.	1.2 Typ.	3.8 Typ.	2.8 Typ.	1.0 Typ.	1.4 Typ.
TZNS4532FJ	4.5±0.3	3.2±0.3	2.6±0.3	1.3 Typ.	1.6 Typ.	5.4 Typ.	3.6 Typ.	1.3 Typ.	2.0 Typ.

Electrical Characteristics

• TZNS322520FJ (3.2x2.5mm, 2.3mm Height)

Series Name	Inductance	Inductance Tolerance	DC Resistance	Rated current	Q	Self-resonant frequency
	(μ H)	(%)			Min.	(MHz) Min.
TZNS322520FJ-1R0	1.0	± 20	0.50	445	20	100
TZNS322520FJ-1R2	1.2	± 20	0.60	425	20	100
TZNS322520FJ-1R5	1.5	± 10	0.60	400	20	75
TZNS322520FJ-1R8	1.8	± 10	0.70	390	20	60
TZNS322520FJ-2R2	2.2	± 10	0.80	370	20	50
TZNS322520FJ-2R7	2.7	± 10	0.90	320	20	43
TZNS322520FJ-3R3	3.3	± 10	1.00	300	20	38
TZNS322520FJ-3R9	3.9	± 10	1.10	290	20	35
TZNS322520FJ-4R7	4.7	± 10	1.20	270	20	31
TZNS322520FJ-5R6	5.6	± 10	1.30	250	20	28
TZNS322520FJ-6R8	6.8	± 10	1.50	240	20	25
TZNS322520FJ-8R2	8.2	± 10	1.60	225	20	23
TZNS322520FJ-100	10	$\pm 10/\pm 5$	1.80	190	35	20
TZNS322520FJ-120	12	$\pm 10/\pm 5$	2.00	180	35	18
TZNS322520FJ-150	15	$\pm 10/\pm 5$	2.20	170	35	16
TZNS322520FJ-180	18	$\pm 10/\pm 5$	2.50	165	35	15
TZNS322520FJ-220	22	$\pm 10/\pm 5$	2.80	150	35	14
TZNS322520FJ-270	27	$\pm 10/\pm 5$	3.10	125	35	13
TZNS322520FJ-330	33	$\pm 10/\pm 5$	3.50	115	40	12
TZNS322520FJ-390	39	$\pm 10/\pm 5$	3.90	110	40	11
TZNS322520FJ-470	47	$\pm 10/\pm 5$	4.30	100	40	11
TZNS322520FJ-560	56	$\pm 10/\pm 5$	4.90	85	40	10
TZNS322520FJ-680	68	$\pm 10/\pm 5$	5.50	80	40	9.0
TZNS322520FJ-820	82	$\pm 10/\pm 5$	6.20	70	40	8.5
TZNS322520FJ-101	100	$\pm 10/\pm 5$	7.00	80	40	8.0
TZNS322520FJ-121	120	$\pm 10/\pm 5$	8.00	75	40	7.5
TZNS322520FJ-151	150	$\pm 10/\pm 5$	9.30	70	40	7.0
TZNS322520FJ-181	180	$\pm 10/\pm 5$	10.20	65	40	6.0
TZNS322520FJ-221	220	$\pm 10/\pm 5$	11.80	65	40	5.5
TZNS322520FJ-271	270	$\pm 10/\pm 5$	12.50	65	40	5.0
TZNS322520FJ-331	330	$\pm 10/\pm 5$	13.00	65	40	5.0
TZNS322520FJ-391	390	$\pm 10/\pm 5$	22.00	50	50	5.0
TZNS322520FJ-471	470	$\pm 10/\pm 5$	25.00	45	50	5.0

- 1) Inductance test condition : 1.0 μ H~390 μ H at 1MHz/0.25V
: 470 μ H at 1kHz/0.25V
2) Q test condition : 1.0 μ H~82 μ H at 1MHz
: 100 μ H~470 μ H at 796kHz

Electrical Characteristics

• TZNS4532FJ (4.5x3.2mm, 3.0mm Height)

Series Name	Inductance	Inductance Tolerance	DC Resistance	Rated current	Q	Self-resonant frequency
	(μ H)	(%)				
TZNS4532FJ-1R0	1.0	± 20	0.20	500	20	120
TZNS4532FJ-1R2	1.2	± 20	0.20	500	20	100
TZNS4532FJ-1R5	1.5	± 20	0.30	500	20	85
TZNS4532FJ-1R8	1.8	± 20	0.30	500	20	75
TZNS4532FJ-2R2	2.2	± 20	0.30	500	20	62
TZNS4532FJ-2R7	2.7	± 20	0.32	500	20	53
TZNS4532FJ-3R3	3.3	± 20	0.35	500	20	47
TZNS4532FJ-3R9	3.9	± 20	0.38	500	20	41
TZNS4532FJ-4R7	4.7	± 10	0.40	500	30	38
TZNS4532FJ-5R6	5.6	± 10	0.47	500	30	33
TZNS4532FJ-6R8	6.8	± 10	0.50	450	30	31
TZNS4532FJ-8R2	8.2	± 10	0.56	450	30	27
TZNS4532FJ-100	10	$\pm 10/\pm 5$	0.56	400	35	23
TZNS4532FJ-120	12	$\pm 10/\pm 5$	0.62	380	35	21
TZNS4532FJ-150	15	$\pm 10/\pm 5$	0.73	360	35	19
TZNS4532FJ-180	18	$\pm 10/\pm 5$	0.82	340	35	17
TZNS4532FJ-220	22	$\pm 10/\pm 5$	0.94	320	35	15
TZNS4532FJ-270	27	$\pm 10/\pm 5$	1.10	300	35	14
TZNS4532FJ-330	33	$\pm 10/\pm 5$	1.20	270	35	12
TZNS4532FJ-390	39	$\pm 10/\pm 5$	1.40	240	35	11
TZNS4532FJ-470	47	$\pm 10/\pm 5$	1.50	220	35	10
TZNS4532FJ-560	56	$\pm 10/\pm 5$	1.70	200	35	9.3
TZNS4532FJ-680	68	$\pm 10/\pm 5$	1.90	180	35	8.4
TZNS4532FJ-820	82	$\pm 10/\pm 5$	2.20	170	35	7.5
TZNS4532FJ-101	100	$\pm 10/\pm 5$	2.50	160	40	6.8
TZNS4532FJ-121	120	$\pm 10/\pm 5$	3.00	150	40	6.2
TZNS4532FJ-151	150	$\pm 10/\pm 5$	3.70	130	40	5.5
TZNS4532FJ-181	180	$\pm 10/\pm 5$	4.50	120	40	5.0
TZNS4532FJ-221	220	$\pm 10/\pm 5$	5.40	110	40	4.5
TZNS4532FJ-271	270	$\pm 10/\pm 5$	6.80	100	40	4.0
TZNS4532FJ-331	330	$\pm 10/\pm 5$	8.20	95	40	3.6
TZNS4532FJ-391	390	$\pm 10/\pm 5$	9.70	90	40	3.3
TZNS4532FJ-471	470	$\pm 10/\pm 5$	11.80	80	40	3.0
TZNS4532FJ-561	560	$\pm 10/\pm 5$	14.50	70	40	2.7
TZNS4532FJ-681	680	$\pm 10/\pm 5$	17.00	65	40	2.5
TZNS4532FJ-821	820	$\pm 10/\pm 5$	20.50	60	40	2.2
TZNS4532FJ-102	1,000	$\pm 10/\pm 5$	25.00	50	40	2.0
TZNS4532FJ-122	1,200	$\pm 10/\pm 5$	30.00	45	40	1.8
TZNS4532FJ-152	1,500	$\pm 10/\pm 5$	37.00	40	40	1.6

- 1) Inductance test condition : 1.0 μ H $\sim$ 390 μ H at 1MHz/0.25V
: 470 μ H $\sim$ 1,500 μ H at 1kHz/0.25V
- 2) Q test condition : 1.0 μ H $\sim$ 82 μ H at 1MHz
: 100 μ H $\sim$ 820 μ H at 796kHz
: 1,000 μ H $\sim$ 1,500 μ H at 252kHz

Conditions/測定条件

- (1) The saturation current is the current value which causes 10% inductance reduction from the initial value.
直流重畳許容電流は直流重畳された電流によりインダクタンスの値が低下し、10%以内となる直流電流の値です。
- (2) The temperature rise current is the DC current value having temperature increase up to 20°C.
温度上昇許容電流は直流重畳された電流により温度上昇の値が20°Cとなる直流電流の値です。
- (3) The rated current is the DC current that satisfies both of the saturation current and temperature rise current value.
定格電流は直流重畳許容電流と温度上昇許容電流の両方を満足する直流電流の値です。
- (4) Ambient temperature during measurement: 20°C.
測定時の周囲温度：20°C。