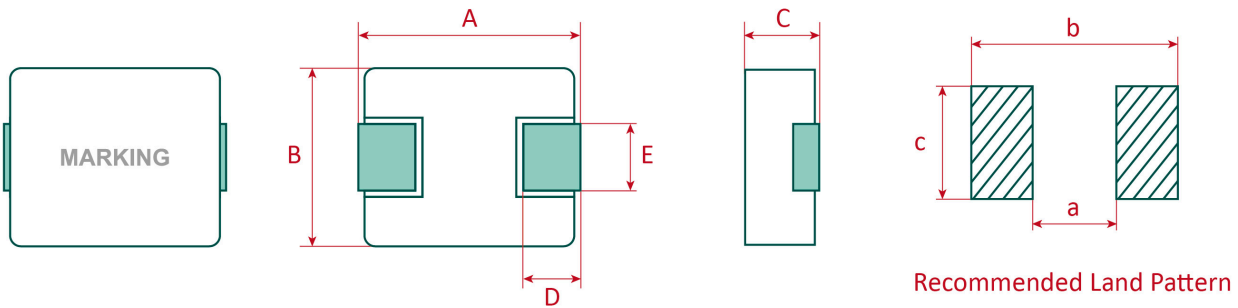


SPECIFICATION FOR APPROVED 樣品承認書

2024
NEW

機構圖 Shape and Dimensions(mm) :



Item	A	B	C	D	E	a typ	b typ	c typ
SAR1770	17.15±0.35	17.15 Max.	7.0 Max.	2.5±0.5	12.0±0.3	11.2	18.2	12.8

SAR1770

Part No.	Impedance L0 (μH)	DC Resistance DCR (mΩ)	Saturation Current Isat (A)	Heating Rating Current Irms (A)
	±20 %, 100 kHz, 1V	Max.	Typ.	Typ.
SAR1770MT2R2	2.2	2.5	34	29
SAR1770MT3R3	3.3	3.95	30	24
SAR1770MT4R7	4.7	4.75	24	21
SAR1770MT6R8	6.8	7.5	22	17
SAR1770MT8R2	8.2	8.7	20	13
SAR1770MT100	10	9.9	19	12
SAR1770MT150	15	17	14.5	11
SAR1770MT220	22	23	11.5	8.5
SAR1770MT330	33	37	10	8
SAR1770MT470	47	47	7.5	6
SAR1770MT680	68	85	6.5	5.2
SAR1770MT101	100	130	5	3.7

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Ordering information

SAR - 1770 - M - T - 2R2

(1) (2) (3)(4) (5)

- (1) Type : Power Inductor
- (2) Size : 1770 is size
- (3) Tolerance : M=±20%
- (4) Packaging style : Taping Reel
- (5) Inductance : 2R2 for 2.2μH, 100 for 10μH, 101 for 100μH...

Characteristics

- All test data is referenced to 25 °C ambient
- Operating temperature range - 55 °C to + 125 °C
- Irms(A):DC current (A) that will cause an approximate ΔT of 40 °C(reference ambient temperature is 25 °C)
- Isat(A):DC current (A) that will cause L0 to drop approximately 30 %
- The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Marking Information

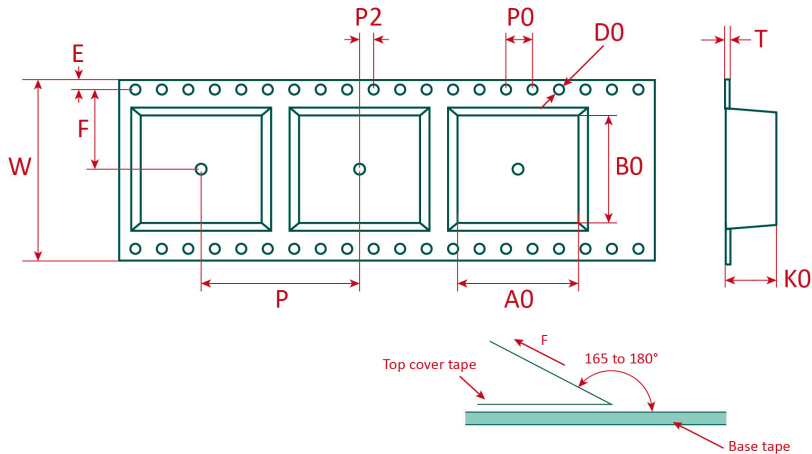
The inductor is marked with a 3-digit code

Nominal Inductance

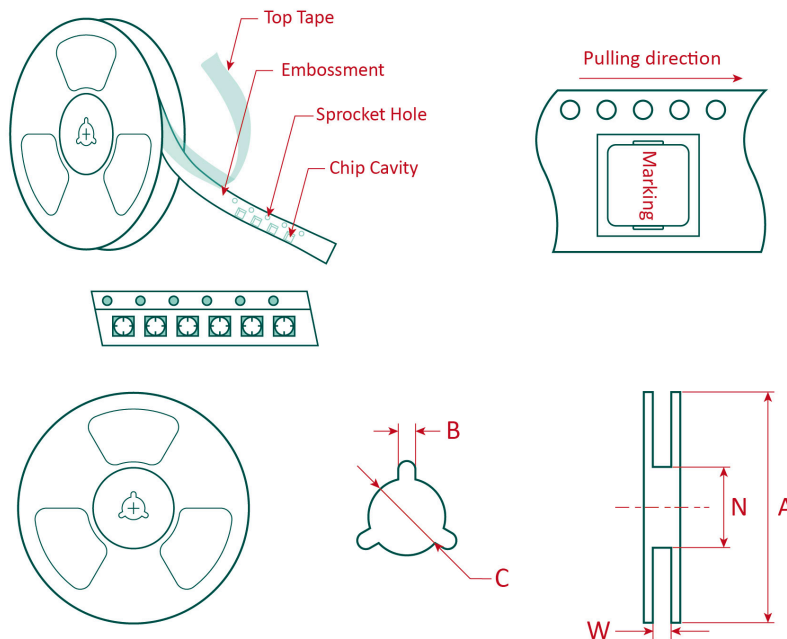
Example	Nominal Value
1R0	1.0 μH
100	10 μH
101	100 μH

TAPE AND REEL SPECIFICATIONS

Dimensions in mm



Type	W	P	P0	P2	D0	T	A0	B0	K0	E	F
SAR1770	32 ±0.3	24 ±0.1	4 ±0.1	2 ±0.1	1.5 ±0.1	0.5 ±0.05	17.5 ±0.1	18.1 ±0.1	7.3 ±0.1	1.75 ±0.1	14.2 ±0.1



Type	A	W	N	B	C
SAR1770	330±2.0	32±0.5	97±0.5	2.3±0.3	13.0±0.2

Packing Quantity

200 Pcs / Reel