Shielded SMD Coupled Inductor – ACPR Series

PARALLEL



Operating Temp : $-50^{\circ}C \sim +150^{\circ}C$

FEATURES	 High efficiency, high coupling High rated current, low DC resistance RoHS compatible AEC-Q200 verified
- APPLICATIONS	 SEPIC, Zeta, Flyback topology, etc. LED, power supplies Used as common mode choke Used as transformer
APPLICATION CIRCUIT DIAGRAM	



PRODUCT	1	2	3	4	5	6	7	8	
IDENTIFICATION	A	CP	R	1208	S	150	M	T	



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Recommended Land Pattern



Unit: mm

Series	А	В	С	D	E	
ACPR1208	12.50 Max	8.50 Max.	1.80±0.20	5.0±0.20	6.5±0.20	
ACPR1210	12.50 Max	10.50 Max.	1.80±0.20	5.0±0.20	6.5±0.20	

SPECIFICATIONS ACPR1208S Series

Part Number			Isat (30	0%) (A)	
Part Number	Inductance(µH)@100K,0.1V	DCR (mΩ)Max.	Max.	Тур.	Irms Typ. (A)
ACPR1208S4R7MT	4.7±20%	25	9.2	12.9	5.0
ACPR1208S6R8MT	6.8±20%	29	8.1	11.4	4.5
ACPR1208S100MT	10±20%	36	6.8	9.8	4.1
ACPR1208S120MT	12+20%	38	6.0	8.0	3.8
ACPR1208S150MT	15±20%	40	5.2	7.0	3.6
ACPR1208S220MT	22±20%	72	4.7	6.7	3.0
ACPR1208S270MT	27±20%	96	3.9	5.7	2.7
ACPR1208S330MT	33±20%	105	3.6	5.2	2.5
ACPR1208S470MT	47±20%	132	3.1	4.3	2.2
ACPR1208S680MT	68±20%	206	2.5	3.6	1.8
ACPR1208S101MT	100±20%	280	2.1	3.0	1.5

ACPR1210S Series

Part Number	Inductance(µH)@100K,0.1V	DCR (mΩ)Max.	Isat (30	0%) (A)	Irms Typ. (A)
			Max.	Тур.	
ACPR1210S3R9MT	3.9±20%	18	12.5	17.6	7.0
ACPR1210S100MT	10.0±20%	28	7.1	10.6	5.6
ACPR1210S120MT	12.0±20%	28	7.1	10.4	5.6
ACPR1210S330MT	33.0±20%	75	4.0	6.2	3.1

Note: %1:Saturation Current:

Max.Value, DC current at which the inductance dropsless than 30% from its value without current;

Typ.Value, DC current at which the inductance drops approximate 30% from its value without current.

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For Typ.Value, temperature rise (ΔT) is approximate 40°C.

The part temperature (ambient + temp. rise) should not exceed 150 °C under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

