

SMD POWER INDUCTOR

All test data is referenced to 25°C ambient.
Inductance measure condition at 100kHz, 1.0V.
Rated current: Isat or Irms, whichever is smaller.
Saturation current(Isat): the actual value of DC current when the inductance decrease approximately 30% of its initial value.

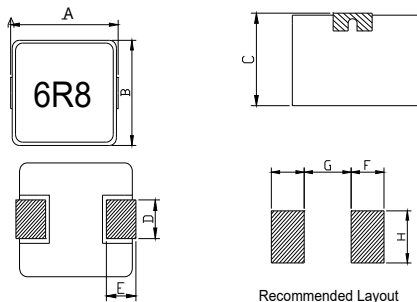
Temperature rise current(Irms): the actual value of DC current when the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$). Operating temperature range: $-40^\circ\text{C} \sim +125^\circ\text{C}$ (Including self-heating).
Storage temperature range: $-55^\circ\text{C} \sim +125^\circ\text{C}$ (on board)



Electrical Specifications@25°C

Part Number	Impedance (μH)	DC Resistance (m Ω) max.	Saturation current (Isat)	Temperature rise current (Irms)	
			(A) Typ.	(A) Typ.	
CS0605C-6R8M-R	6.8 $\pm 20\%$	40.0	8.0	5.0	

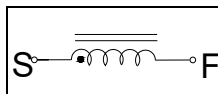
MECHANICAL



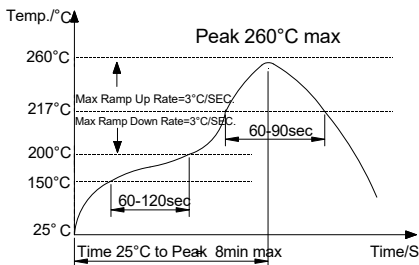
Electrode Coplanarity: 0.1mm Max.

POSITION	A	B	C	D	E	F	G	H
DIMENSION	7.3 ± 0.3	6.8 ± 0.3	5.0Max.	3.0 ± 0.3	1.6 ± 0.5	2.35	3.7	3.5

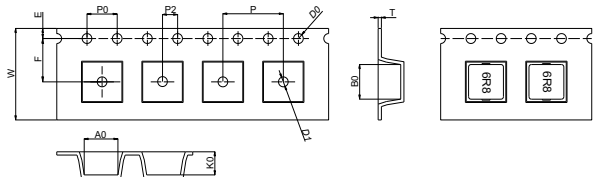
SCHEMATICS



MECHANICAL PERFORMANCE TEST



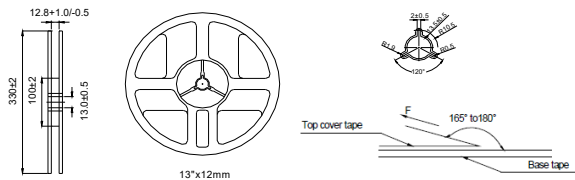
TAPING AND PACKING



ITEM	W	A0	B0	K0	K1	P	F	E	D0	D1	P0	P2	T
DIM	16.0 +0.3 -0.3	8.0 +0.1 -0.1	8.0 +0.1 -0.1	5.3 +0.0 -0.1	0.00 +0.1 -0.0	12 +0.1 -0.1	7.5 +0.1 -0.1	1.75 +0.1 -0.1	1.50 +0.0 -0.1	1.50 +0.1 -0.0	4.00 +0.1 -0.1	2.00 +0.1 -0.1	0.40 +0.1 -0.1

Quantity (pcs):
1000 PCS PER REEL
3REELS PER CARTON
3000PCS PER CARTON

Reel



Dimensions in mm