

SMD POWER INDUCTORS

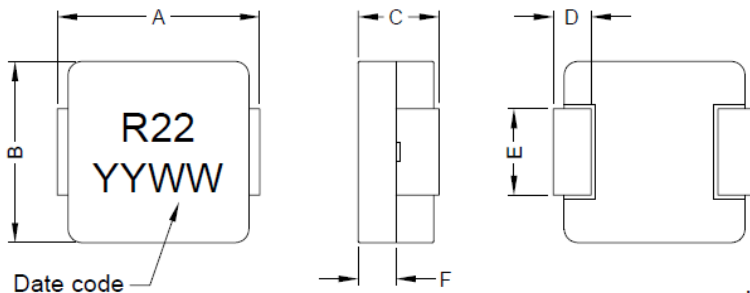
SERIE: HPC0412-P 4,45 x 4,06 x 1,0 mm

DIMENSIONS:

VPE: 4000 pcs.



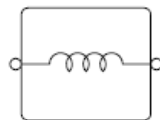
RoHS Compliant



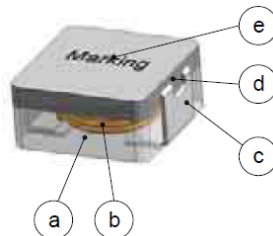
Unit:m/m

A	B	C	D	E	F
4.45±0.25	4.06±0.25	1.0±0.2	0.76±0.30	2.0±0.20	0~0.7

SCHEMATIC:



MATERIALS :



- (a) Core : Magnetic metal powder or equivalent
- (b) Wire : Polyester wire or equivalent
- (c) Solder Plating : 100% Pb free solder
- (d) Paint : Epoxy resin
- (e) Ink : Halogen-free ketone

GENERAL SPECIFICATION:

1. Test Freq. : L : 100KHz./1V
2. Ambient Temp.: 25°C
3. Operating Temp. : - 40°C to + 125°C
4. Storage Temp. : -40°C to + 125°C
5. Humidity Range: 50~60% RH (Product without taping)
6. Heat Rated Current (I_{rms}) : Will cause the coil temp. rise approximately Δt to 40°C (keep 1min)
7. Saturation Current (I_{sat}) : Will cause L0 to drop ≤ 20% (keep quickly)
8. Part Temperature (Ambient + Temp. Rise) : Should not exceed 125°C under worst case operating conditions

NOTE : Specifications subject to change without notice. Please check our website for latest information

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ELECTRICAL CHARACTERISTICS

Part No.	Inductance L0 (μH) $\pm 20\%$ @ 0A	DCR ($\text{m}\Omega$) Max. @ 25°C	DCR ($\text{m}\Omega$) Typ. @ 25°C	I _{rms} (A)	I _{sat} (A)
HPC0412-P - R10SWE	0,10 $\pm 30\%$	5,5	4,3	11,5	25
HPC0412-P - R22SWE	0,22	8,0	6,6	8,5	20
HPC0412-P - R47SWE	0,47	20	18	6,0	6,5
HPC0412-P - 1R0SWE	1,00	47	41	4,0	6,0
HPC0412-P - 1R5SWE	1,50	63,3	55	3,0	4,0
HPC0412-P - 2R2SWE	2,20	80	69,2	2,8	3,5
HPC0412-P - 3R3SWE	3,30	97	84	2,3	3,0
HPC0412-P - 4R7SWE	4,70	145	128	2,0	2,5
HPC0412-P - 5R6SWE	5,60	208	180	1,7	2,3
HPC0412-P - 6R8SWE	6,80	360	300	1,5	1,7
HPC0412-P - 8R2SWE	8,20	376	313	1,4	1,6
HPC0412-P - 100SWE	10,0	463	410	1,3	1,4

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