

Chip Inductors for Power Applications

Our Chip-Power Inductor FPS-Series 1008, 1212, 1616, 242408 and 242418 designed with a high Flux density Ferrite Core. Small footprints 3x3, 4x4, 6x6mm and flat profile. The Inductance range is from 0,5 μ H to 220 μ H. Rated Current up to 6.5A. The Models are magnetically shielded with a newly developed Ferrite-Epoxy resin. This Inductors provide good solderability with lead free tinned Terminals and are RoHS compliant.

Applications Suitable for circuits where high current saturation is critical. When small size matters, only 1.5mm and higher profile for DC/DC converters, for example in portable devices. Backlight for Tablet Displays

Technical Data		
L – Value (rated inductance)	Measured with E4980AL LCR meter at frequency fL	
SRF (min)	Measured with E4991B	
DCR (max)	Measured at 25°C	
Rated DC Current	Irms based on temperature rise, determined at the point where the temperature rise does not exceed 40°C typ above the ambient temperature of 25°C Isat Current based on inductivity drop of 30% related to the unloaded inductivity	
Operating Temperature	-40°C to +125°C (including component self-heating)	
Moisture Sensitivity Levels (MSL)	MSL Level 1, indicating unlimited floor life at $\leq 30^\circ\text{C}$ / 85% relative humidity	
Surface Finishing	Flat top for perfect pick and place assembly	
Pad Metallization	Tin as top layer	
Wire Termination	Spot welding covered with tin layer	
Recommended soldering method	Reflow	

Ordering Code Example: 1212FPS-1R0X-01

1212 **FPS** - **1R0** **X** - **YY** → **1212FPS-1R0M-01**
(Case Size) (Core Type) (Inductance Value) (Tolerance) (Packing Code)

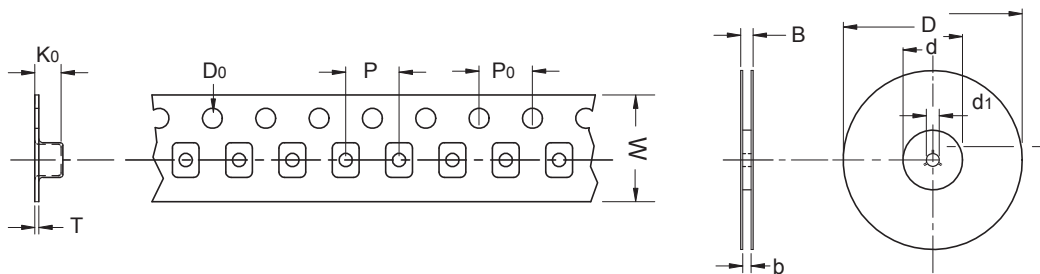
Case Sizes - 1008, 1212, 1616, 242408, 242418

Core Type - FPS (Ferrite)

Tolerances - M (20%), N (30%)

Packing Code - 01 (Taped / Reel)

Packing Specification



drawing only schematic, see table

Type	D	Do	d	d1	B	b	W	P	P0	Ko	T
1212	180	1.55	50	13	12.5	8.4	8	4	4	1.60	0.25
1616	330	1.5	99.5	13.5	17.2	12.6	12	8	4	1.90	0.30
242408	330	1.6	100	13.5	17.6	13	12	8	4	2.4	0.30
242418	330	1.5	99.5	13.5	21	16.6	16	12	4	4.7	0.40