

# MULTILAYER FERRITE CHIP INDUCTORS

Power line - Large currents offering

## Series IN-P / IN-U / IN-L



### OUTLINE

- ◆ Gausstek's Multilayer chip inductor is formed without a wound wire and has closed magnetic circuit formed by simultaneous forming of alternative layers of ferrite pasted and conductor paste.
- ◆ However this multilayer chip inductor results in magnetic shielding the absence of leakage flux makes it most suitable for high density mounting.

### FEATURES

- ◆ These components are standard SMD parts and specially designed for flow and reflow soldering.
- ◆ Specially designed for surface mounting equipment. Available in various size which allows them to wide range of application and usage.

### APPLICATIONS

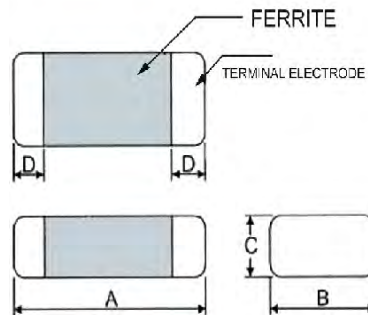
- ◆ Low DC resistance structure of electrode to prevent wasteful electric power consumption.
- ◆ Suitable for reflow soldering.
- ◆ Excellent solder ability and heat resistance.
- ◆ 100% Lead(Pb) & Halogen-Free and RoHS compliant.

### PRODUCT IDENTIFICATION

IN   05   P   35   4   K   1U  
**a**   **b**   **c**   **d**   **e**   **f**   **g**

- a : Type of Products
- b : Dimension - 05:0805 06:2016 08:2520
- c : Design code - P / U / L
- d : Thickness - 35=1.25mm, 40=1.0mm
- e : Packing - PCS/REEL - 4=4,000, 3=3,000
- f : Tolerance - M : ±20%
- g : Inductance - 1N8=0.0018 μH, 100N=0.1 μH, 1U=1.0 μH, 1U2=1.2 μH

### SHAPES & DIMENSIONS



Unit : mm

Type	Alias in mm	Alias in inch	A	B	C	D
IN05□35	201209	0805	2.0±0.20	1.25±0.20	0.90±0.10	0.5±0.30
IN06□40	201610	0806	2.0±0.20	1.60±0.20	1.0 max.	0.5±0.30
IN08□40	252010	1008	2.5±0.20	2.00±0.20	1.0 max.	0.5±0.30

### PACKAGING QUANTITY

Type	Alias in mm	Alias in inch	PCS/REEL
IN05□35	201209	0805	4,000
IN06□40	201610	0806	3,000
IN08□40	252010	1008	3,000

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## ELECTRICAL CHARACTERISTICS

Part Number	Inductance ( $\mu$ H) $\pm 20\%$ at 1MHz	SRF (MHz) min.	RDC ( $\Omega$ ) $\pm 30\%$	IDC (mA) max.
IN05P354M 1U	1.0	140	0.12	1100
IN05P354M 2U2	2.2	60	0.17	800
IN05P354M 4U7	4.7	30	0.20	600
IN06P403M 1U	1.0	100	0.10	1300
IN06P403M 2U2	2.2	70	0.12	1200
IN06P403M 4U7	4.7	40	0.16	1100
IN08P403M 2U2	2.2	50	0.10	1200
IN08P403M 4U7	4.7	35	0.12	1100
IN05U354M 1U	1.0	60	0.20	1400
IN05U354M 2U2	2.2	40	0.30	1200
IN05U354M 4U7	4.7	20	0.50	1000
IN06U403M 680N	0.7	65	0.16	1600
IN06U403M 1U	1.0	55	0.18	1400
IN06U403M 2U2	2.2	35	0.28	1200
IN06U403M 4U7	4.7	15	0.45	1100
IN08U403M 680N	0.7	60	0.16	1800
IN08U403M 1U	1.0	50	0.18	1700
IN08U403M 2U2	2.2	30	0.23	1500
IN08U403M 4U7	4.7	15	0.35	1200

Part Number	Inductance ( $\mu$ H) $\pm 20\%$ at 1MHz	SRF (MHz) min.	RDC ( $\Omega$ ) max.	RDC ( $\Omega$ ) typ.	I <sub>rms</sub> (mA) max.	I <sub>sat</sub> (mA) typ.
IN08L403M 2U2	2.2	1	0.09	0.08	1100	600