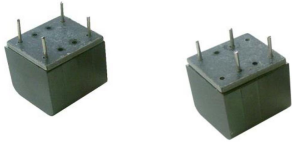


TIDA-DIP TYPE (Rev. 1.0)



Round Wire

TIDA, a full series of inductor module for LPF used in the digital amplifier featuring with higher efficiency and lower heat generation.

Features

- * Space reduction is realized by 2 in 1 construction
- * The optimal design realizes high quality sound and low distortion
- * Low radiation noise by magnetically shielded construction
- * High current, low resistance

Applications

- * Car audios, home theater sets and large LCDs

Operating & Storage Condition

- * Operating Temp : -40 to +125°C
- * Storage Temp : -40 to +85°C
- * Storage Life Time : 12 months @25°C , RH 65%

Product Identification



Test Equipment

- * HP4291A-Z, HP4284A, HP42841A- L, IDC, Q.RDC
- * HP8753D Network Analyzer- SRF

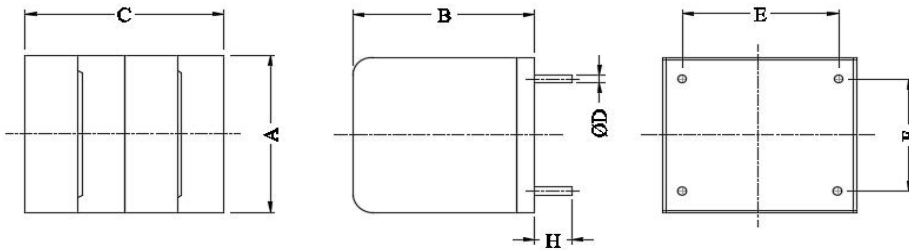
Standard Atmospheric Conditions

- * Ambient Temp : 20±15°C
- * Relative Humidity : 65±20%

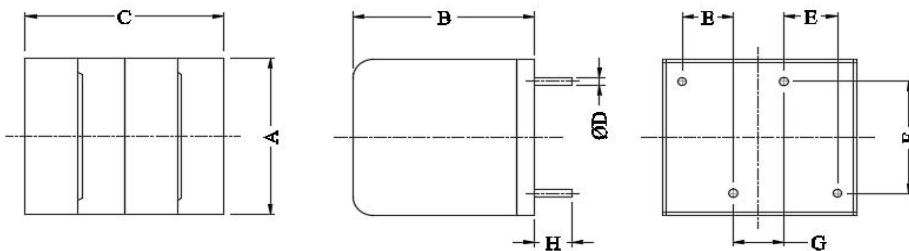
1. Product Code
2. Size Code
3. Inductance: 22uH
4. Tolerance: K=±10%, M=±20%, N=±30%
5. Various type: S-square; P-prism

Dimension: [mm]

(S Type)



(P Type)



Size Code	Type	A(±0.5)	B(max.)	C(max.)	D(±0.1)	E(±0.5)	F(±0.5)	G(±0.5)	H(±0.5)
1516	S	14.5	16.0	16.5	*	11.8	8.5	-	5.0
1516	P	14.5	16.0	16.5	*	4.0	8.5	3.8	5.0
1616	S	15.5max.	16.0	21.5	0.8	16.0	8.0	-	4.5

* Vary with different inductance. Please refer to **Electrical Characteristics**.

TIDA-DIP TYPE (Rev. 1.0)

Electrical Characteristics

P/N	Inductance (μH)	DCR ($\text{m}\Omega$) max.	Isat (A) max.	Irms (A) max.	Dimension D (mm)
TIDA1516-100MS	10.0	11.0	11.0	7.0	0.8
TIDA1516-150MS	15.0	16.5	8.4	5.4	0.7
TIDA1516-220MS	22.0	18.0	6.2	5.1	0.7
TIDA1516-330MS	33.0	22.0	5.5	4.5	0.6
TIDA1516-100MP	10.0	11.0	11.0	7.0	0.8
TIDA1616-220MS	22.0	26.0	9.8	5.6	-

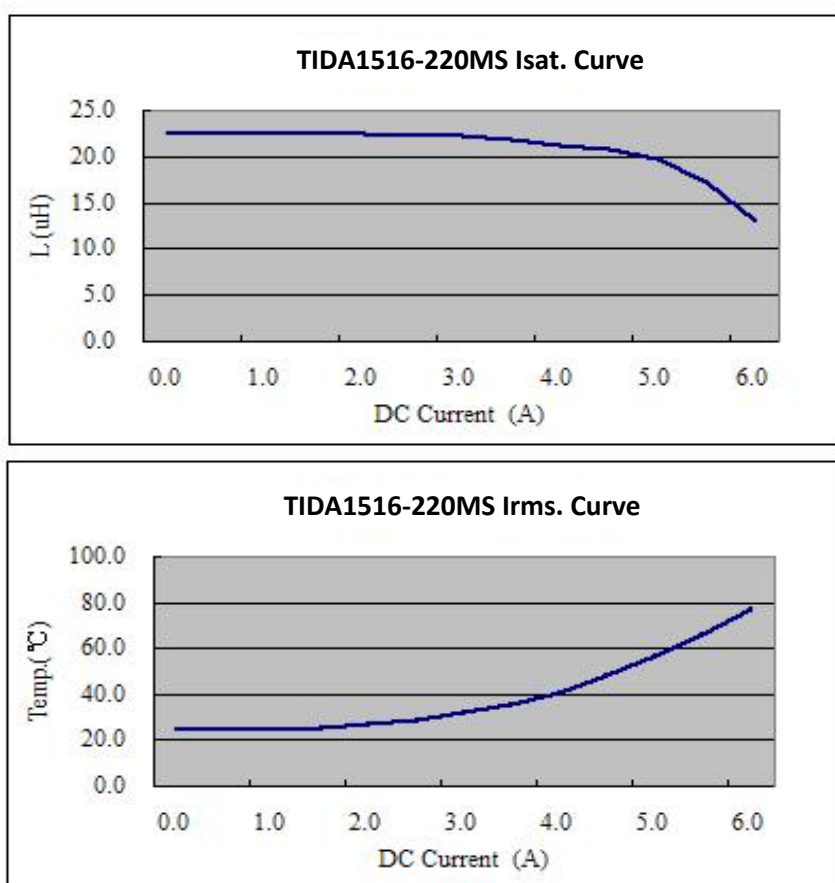
* Test Condition: @1KHz/ 1.0V, 25°C Ambient

* Isat.: This indicates the value of DC current when the inductance becomes 25% lower than its nominal value.

* Irms.: The DC current at which the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

* Tolerance: K= $\pm 10\%$, M= $\pm 20\%$, N= $\pm 30\%$

Characteristics of DC Superposition:



TIDA-DIP TYPE (Rev. 1.0)



Flat Wire

TIDA, a full series of inductor module for LPF used in the digital amplifier featuring with higher efficiency and lower heat generation.

Features

- * The optimal design realizes high quality sound and low distortion
- * Low radiation noise by magnetically shielded construction
- * High current, low resistance

Applications

- * Car audios, home theater sets and large LCDs

Operating & Storage Condition

- * Operating Temp : -40 to +125°C
- * Storage Temp : -40 to +85°C
- * Storage Life Time : 12 months @25°C , RH 65%

Product Identification

TIDA 1315 - 220 M
 1 2 3 4

1. Product Code
2. Size Code
3. Inductance: 22uH
4. Tolerance: K=±10%, M=±20%, N=±30%

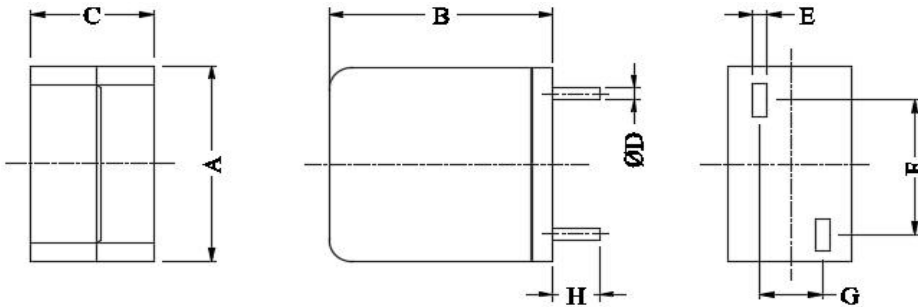
Test Equipment

- * HP4291A-Z, HP4284A,HP42841A- L,IDC,Q,RDC
- * HP8753D Network Analyzer- SRF

Standard Atmospheric Conditions

- * Ambient Temp : 20±15°C
- * Relative Humidity : 65±20%

Dimension: [mm]



Size Code	A(±0.5)	B(max.)	C(±0.5)	D(±0.1)	E(±0.1)	F(±0.5)	G(±0.5)	H(±1.0)
1010	10.5	10.5	6.4	1.2	0.2	6.4	3.6	4.0
1315	13.0	15.0	8.4	1.8	*	8.4	3.3	5.0
1416	14.0	16.0	9.6	1.8	*	9.2	5.2	5.0

* Vary with different inductance. Please refer to **Electrical Characteristics**.



TIDA-DIP TYPE (Rev. 1.0)

Electrical Characteristics

P/N	Inductance (uH)	DCR (mΩ) max.	Isat (A) max.	Irms (A) max.	Dimension (mm)	
					D	E
TIDA1010-100M	10.0	18.0	7.5	5.5	1.2	0.2
TIDA1010-120M	12.0	20.0	6.0	5.0	1.2	0.2
TIDA1010-150M	15.0	23.0	5.3	4.8	1.2	0.2
TIDA1315-100M	10.0	5.6	7.0	8.5	1.8	0.50
TIDA1315-120M	12.0	6.5	6.6	8.0	1.8	0.50
TIDA1315-150M	15.0	7.2	5.5	7.5	1.8	0.50
TIDA1315-220M	22.0	9.0	5.2	7.0	1.8	0.40
TIDA1315-270M	27.0	15.0	4.0	6.0	1.8	0.33
TIDA1315-330M	33.0	16.0	3.8	5.5	1.8	0.33
TIDA1416-100M	10.0	6.5	9.0	8.0	1.8	0.50
TIDA1416-120M	12.0	6.5	8.5	8.0	1.8	0.50
TIDA1416-150M	15.0	7.0	7.5	7.5	1.8	0.50
TIDA1416-220M	22.0	12.0	6.5	7.0	1.8	0.43
TIDA1416-330M	33.0	15.0	6.0	6.0	1.8	0.35
TIDA1416-470M	47.0	20.0	5.0	5.0	1.8	0.30

* Test Condition: @1KHz/ 1.0V, 25°C Ambient

* Isat.: This indicates the value of DC current when the inductance becomes 25% lower than its nominal value.

* Irms.: The DC current at which the temperature rise is $\Delta T \leq 40^\circ\text{C}$ ($T_a=20^\circ\text{C}$).

* Tolerance: K= $\pm 10\%$, M= $\pm 20\%$, N= $\pm 30\%$

Characteristics of DC Superposition:

