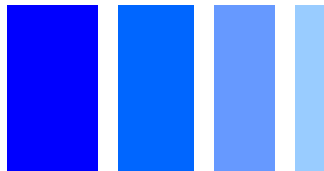


# SMD Power Inductor

## CDEP147



### Electrical Characteristics—standard type

| PART NO.           | STAMP | INDUCTANCE<br>[WITHIN] ※1 | D.C.R. (mΩ)<br>[MAX.] (Typ.)<br>(at 20°C) | SATURATION<br>CURRENT ( A ) ※2 |            | TEMPERATURE<br>RISE CURRENT<br>( A ) ※3 |
|--------------------|-------|---------------------------|-------------------------------------------|--------------------------------|------------|-----------------------------------------|
|                    |       |                           |                                           | (at 20°C)                      | (at100°C)  |                                         |
| CDEP147NP-0R4NC-95 | 0R4NS | 0.4μH±25%                 | 1.18(0.98)                                | 52.8(66.0)                     | 45.6(57.0) | 23.0                                    |
| CDEP147NP-0R9MC-95 | 0R9MS | 0.9μH±20%                 | 1.46(1.22)                                | 36.0(45.0)                     | 30.8(38.5) | 21.5                                    |
| CDEP147NP-1R5MC-95 | 1R5MS | 1.5μH±20%                 | 2.02(1.69)                                | 27.2(34.0)                     | 22.8(28.5) | 20.0                                    |
| CDEP147NP-2R4MC-95 | 2R4MS | 2.4μH±20%                 | 3.23(2.70)                                | 22.4(28.0)                     | 19.2(24.0) | 17.5                                    |
| CDEP147NP-3R4MC-95 | 3R4MS | 3.4μH±20%                 | 4.97(4.14)                                | 18.4(23.0)                     | 16.0(20.0) | 16.0                                    |
| CDEP147NP-4R7MC-95 | 4R7MS | 4.7μH±20%                 | 6.03(5.02)                                | 15.2(19.0)                     | 14.2(17.8) | 12.5                                    |
| CDEP147NP-6R1MC-95 | 6R1MS | 6.1μH±20%                 | 7.80(6.50)                                | 14.8(18.5)                     | 12.4(15.5) | 11.0                                    |
| CDEP147NP-7R7MC-95 | 7R7MS | 7.7μH±20%                 | 9.85(8.21)                                | 12.4(15.5)                     | 10.6(13.2) | 10.0                                    |
| CDEP147NP-9R5MC-95 | 9R5MS | 9.5μH±20%                 | 13.31(11.1)                               | 11.2(14.0)                     | 9.6(12.0)  | 8.5                                     |

### Electrical Characteristics—high power type

| PART NO.           | STAMP | INDUCTANCE<br>[WITHIN] ※1 | D.C.R. (mΩ)<br>[MAX.] (Typ.)<br>(at 20°C) | SATURATION<br>CURRENT ( A ) ※2 |            | TEMPERATURE<br>RISE CURRENT<br>( A ) ※3 |
|--------------------|-------|---------------------------|-------------------------------------------|--------------------------------|------------|-----------------------------------------|
|                    |       |                           |                                           | (at 20°C)                      | (at100°C)  |                                         |
| CDEP147NP-0R3NC-73 | 0R3NH | 0.3μH±25%                 | 1.18(0.98)                                | 70.0(87.6)                     | 59.8(74.8) | 23.0                                    |
| CDEP147NP-0R7MC-73 | 0R7MH | 0.7μH±20%                 | 1.46(1.22)                                | 46.4(58.0)                     | 39.2(49.0) | 21.5                                    |
| CDEP147NP-1R2MC-73 | 1R2MH | 1.2μH±20%                 | 2.02(1.69)                                | 35.7(44.7)                     | 30.0(37.5) | 20.0                                    |
| CDEP147NP-1R8MC-73 | 1R8MH | 1.8μH±20%                 | 3.23(2.70)                                | 29.6(37.0)                     | 24.0(30.0) | 17.5                                    |
| CDEP147NP-2R6MC-73 | 2R6MH | 2.6μH±20%                 | 4.97(4.14)                                | 24.4(30.5)                     | 20.4(25.5) | 16.0                                    |
| CDEP147NP-3R5MC-73 | 3R5MH | 3.5μH±20%                 | 6.03(5.02)                                | 20.8(26.0)                     | 17.2(21.5) | 12.5                                    |
| CDEP147NP-4R7MC-73 | 4R7MH | 4.7μH±20%                 | 7.80(6.50)                                | 17.6(22.0)                     | 16.0(20.0) | 11.0                                    |
| CDEP147NP-5R9MC-73 | 5R9MH | 5.9μH±20%                 | 9.85(8.21)                                | 16.4(20.5)                     | 14.0(17.5) | 10.0                                    |
| CDEP147NP-7R3MC-73 | 7R3MH | 7.3μH±20%                 | 13.31(11.1)                               | 14.6(18.3)                     | 12.2(15.3) | 8.5                                     |

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 75% of it's nominal value.

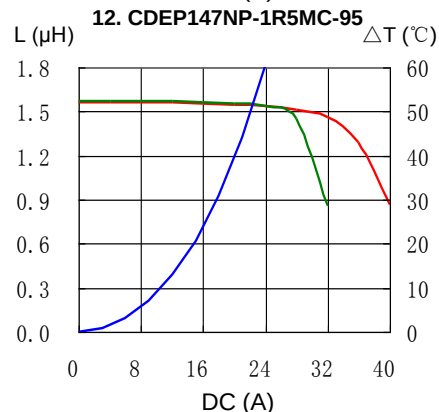
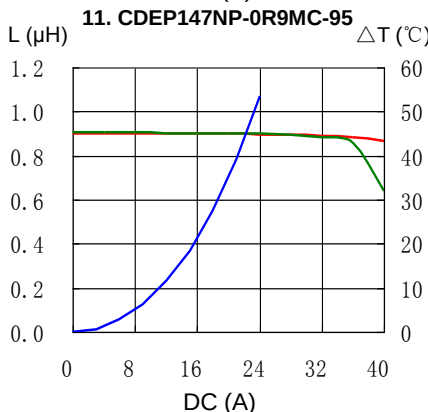
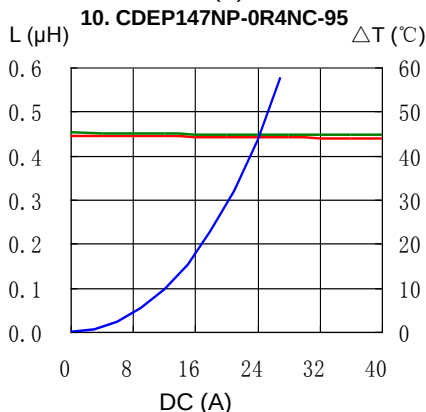
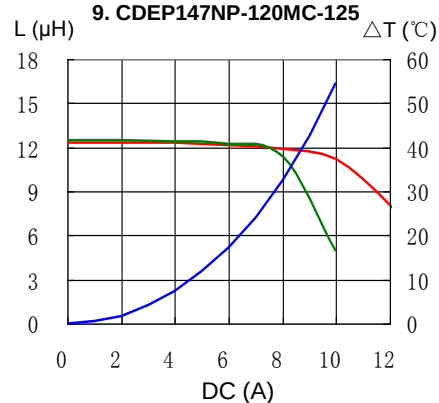
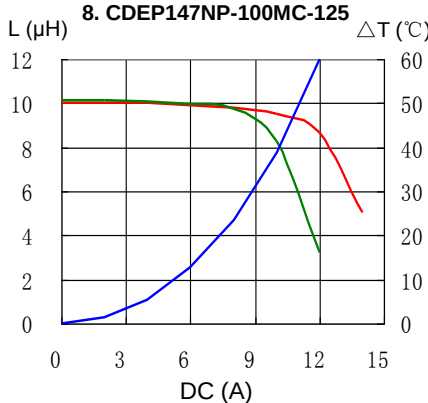
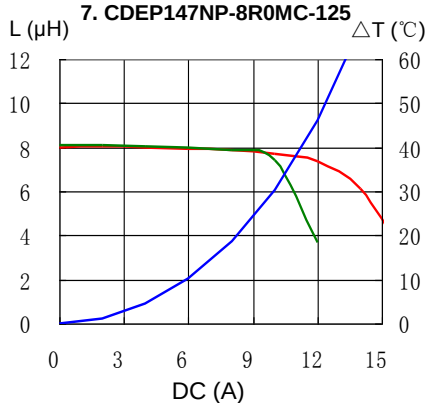
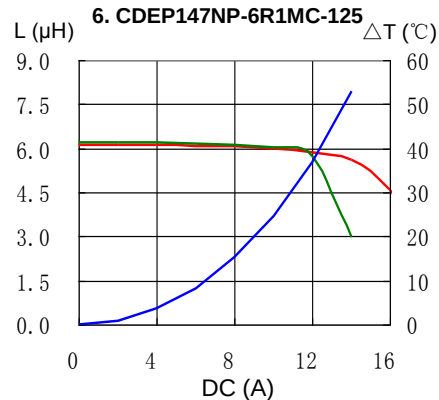
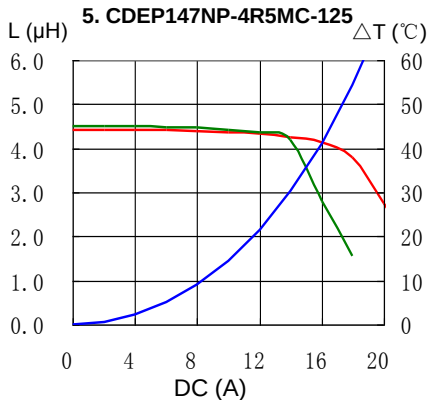
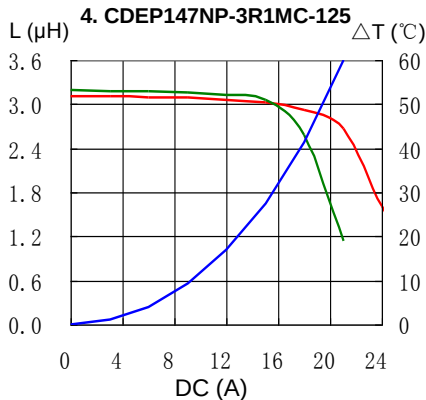
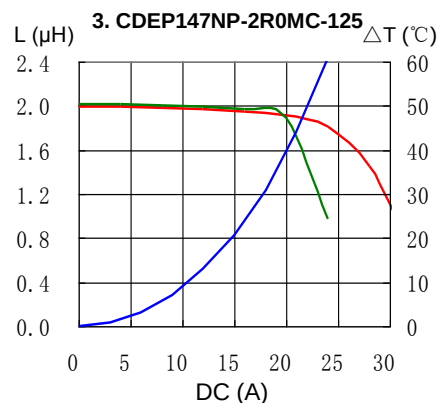
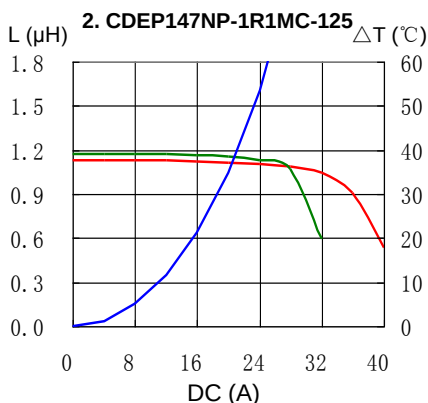
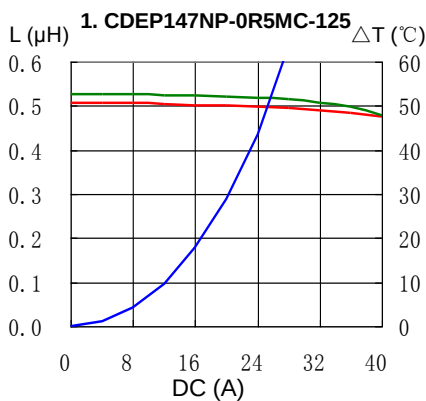
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

# SMD Power Inductor CDEP147



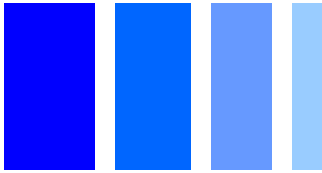
## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$



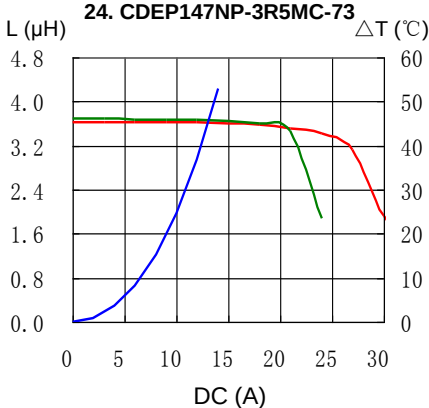
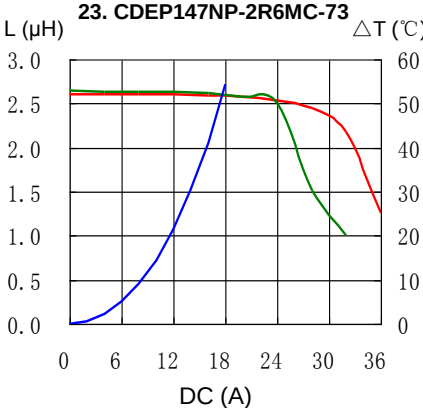
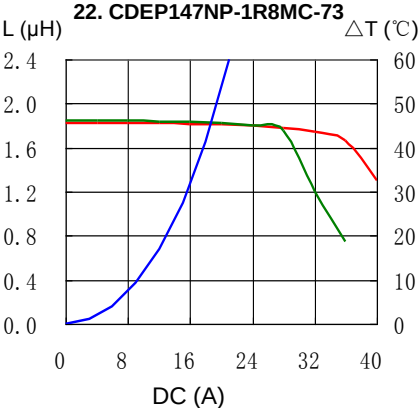
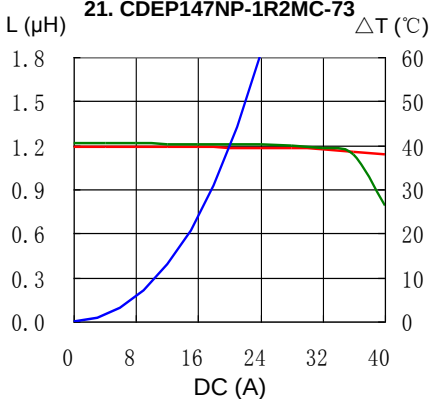
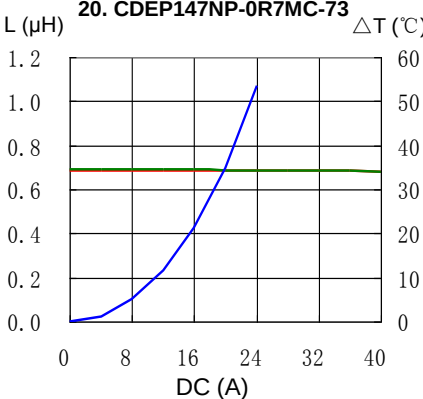
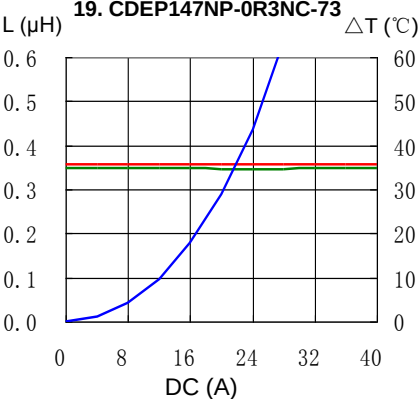
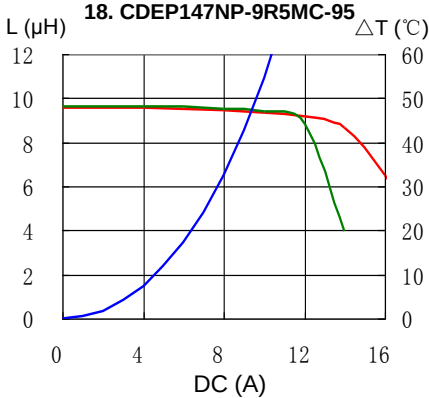
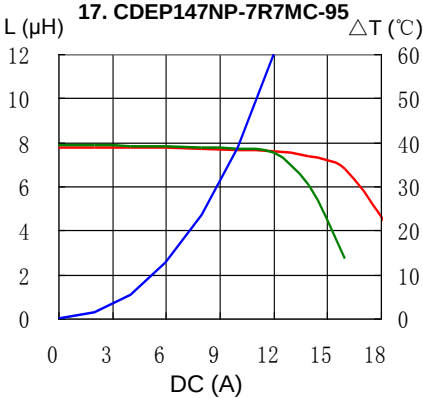
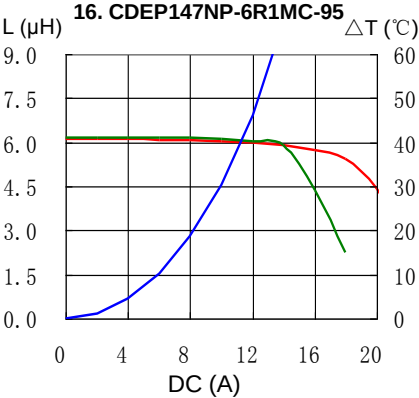
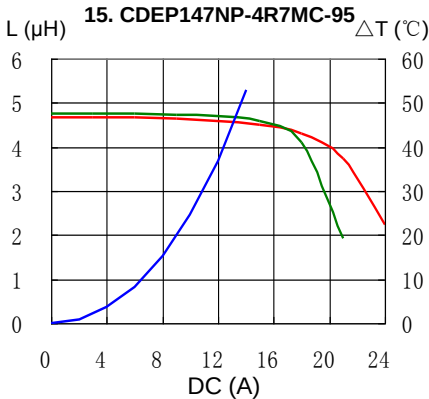
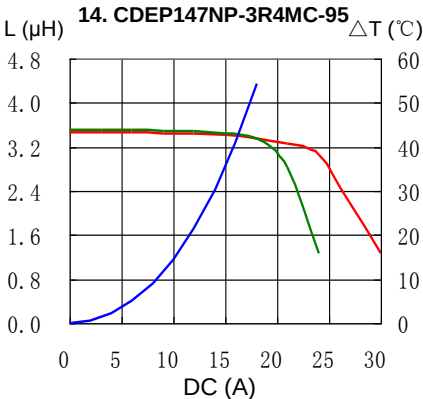
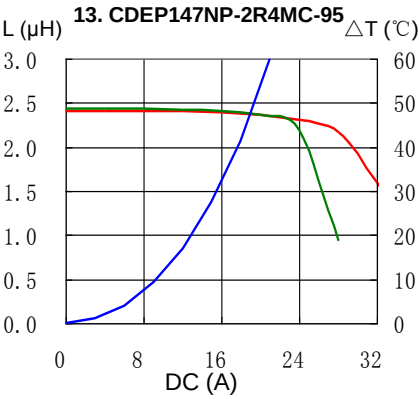
# SMD Power Inductor

## CDEP147



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

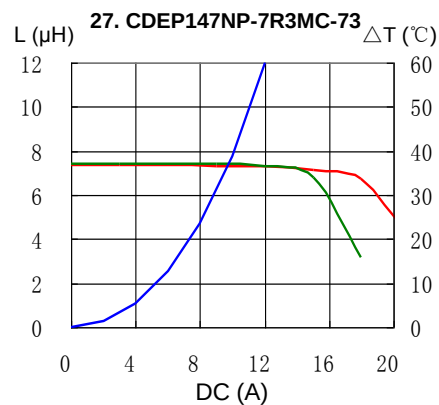
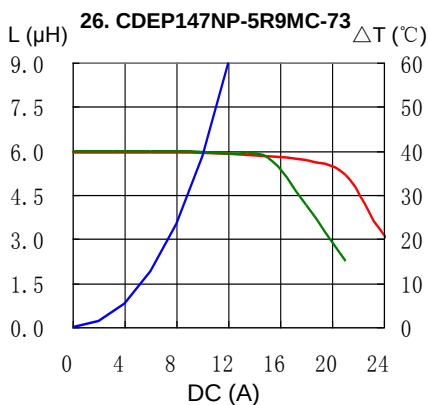
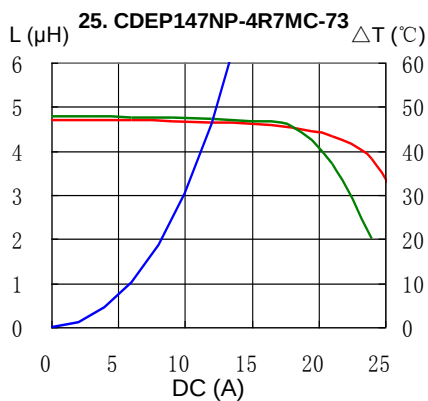


# SMD Power Inductor CDEP147



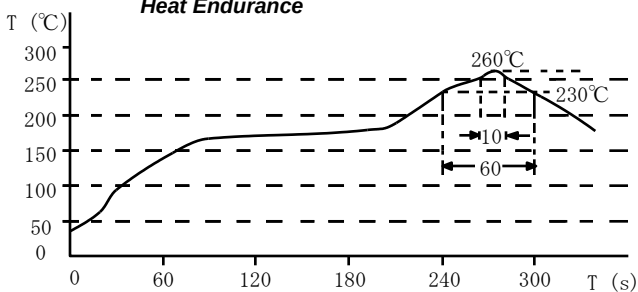
## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

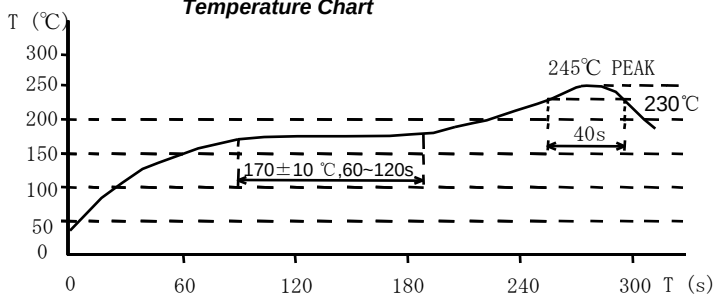


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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### Hong Kong

Tel.+852-2880-6781  
FAX.+852-2565-9600  
[sales@hk.sumida.com](mailto:sales@hk.sumida.com)

### Saitama(Japan)

Tel.+81-48-691-7300  
FAX.+81-48-691-7340  
[sales@jp.sumida.com](mailto:sales@jp.sumida.com)

### Chicago

Tel.+1-847-545-6700  
FAX. +1-847-545-6720  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

### Shanghai

Tel.+86-21-5836-3299  
FAX.+86-21-5836-3266  
[shanghai.sales@cn.sumida.com](mailto:shanghai.sales@cn.sumida.com)

### Seoul

Tel.+82-2-6237-0777  
FAX.+82-2-6237-0778  
[sales@kr.sumida.com](mailto:sales@kr.sumida.com)

### Obernzell

Tel.+49-8591-937-0  
FAX. +49-8591-937-103  
[contact@eu.sumida.com](mailto:contact@eu.sumida.com)

### Shenzhen

Tel.+86-755-8291-0228  
FAX.+86-755-8291-0338  
[shenzhen.sales@cn.sumida.com](mailto:shenzhen.sales@cn.sumida.com)

### Singapore

Tel.+65-6296-3388  
FAX.+65-6841-4426  
[sales@sg.sumida.com](mailto:sales@sg.sumida.com)

### Neumarkt

Tel.+49-9181-4509-110  
FAX. +49-9181-4509-310  
[infocomp@eu.sumida.com](mailto:infocomp@eu.sumida.com)

### Taipei

Tel.+886-2-8751-2737  
FAX.+886-2-8751-2738  
[sales@tw.sumida.com](mailto:sales@tw.sumida.com)

### San Jose

Tel.+1-408-321-9660  
FAX.+1-408-321-9308  
[sales@us.sumida.com](mailto:sales@us.sumida.com)