

# Power Common Mode Chokes



## ACMP-1566 Series

Request Samples



Check Inventory



15.0 x 13.0 x 6.6 mm  
**RoHS/RoHS II Compliant**  
MSL Level = 1

### Features

- Commercial Grade
- PPAP ready and supported
- Excellent impedance characteristics
- Rated current up to 13A
- Extremely Low DCR

### Applications

- DC power line common mode noise suppression.
- Switch Mode Power Supplies and regulators
- Variable Frequency Drives
- AC/DC power rectifiers

### Electrical Specifications

| Part Number   | Impedance (Ω)<br>@100MHz |      | DCR (mΩ) | Rated Current (A) | Rated Voltage (Vdc) | Insulation Resistance (MΩ) |
|---------------|--------------------------|------|----------|-------------------|---------------------|----------------------------|
|               | Min                      | Typ. | Max      | Typ.              | Max                 | Min                        |
| ACMP-1566-301 | 225                      | 300  | 5.0      | 13                | 80                  | 10                         |
| ACMP-1566-501 | 400                      | 500  | 6.0      | 10                | 80                  | 10                         |
| ACMP-1566-551 | 400                      | 550  | 6.0      | 10                | 80                  | 10                         |
| ACMP-1566-601 | 500                      | 600  | 7.0      | 10                | 80                  | 10                         |
| ACMP-1566-701 | 500                      | 700  | 7.0      | 10                | 80                  | 10                         |
| ACMP-1566-102 | 800                      | 1000 | 10       | 9                 | 80                  | 10                         |
| ACMP-1566-152 | 1200                     | 1500 | 23       | 5                 | 80                  | 10                         |

**Rated Current is based on an Irms temperature rise of 40°C**

**Operating Temperature: -40°C to +125°C (Including self-heating)**

**Storage (in original packaging): <40°C, <70% RH**

**ACMP-1566 Series is RoHS Compliant and Pb free**

# Power Common Mode Chokes



## ACMP-1566 Series

Request Samples

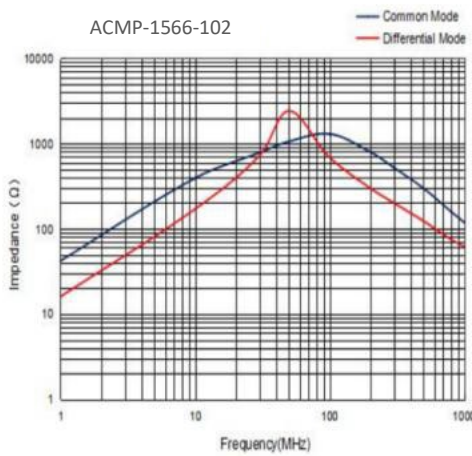
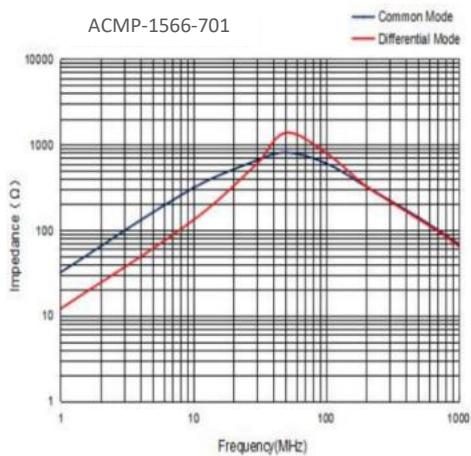
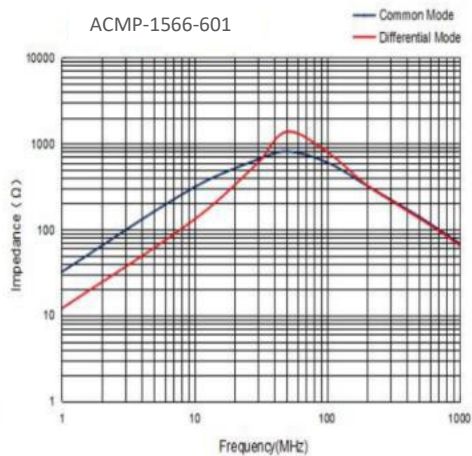
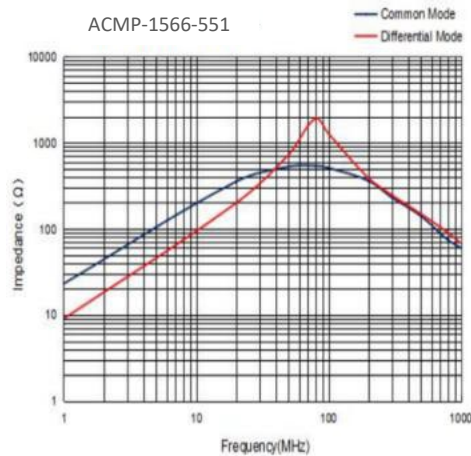
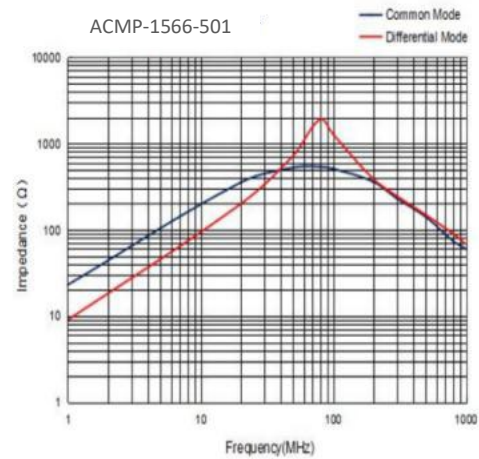
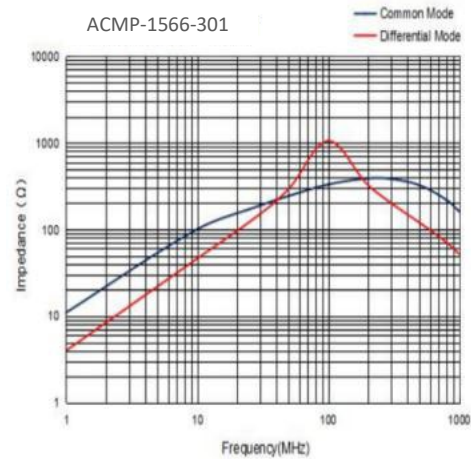


Check Inventory



15.0 x 13.0 x 6.6 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

### Electrical Specifications (Cont'd)



# Power Common Mode Chokes



## ACMP-1566 Series

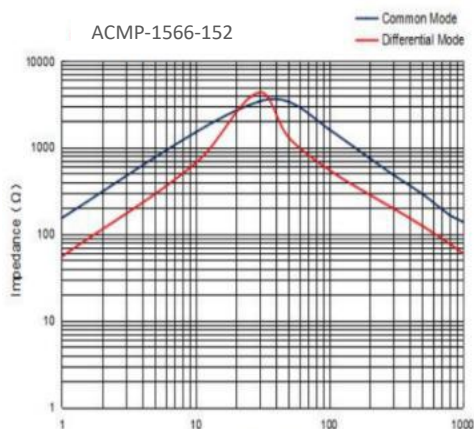
Request Samples



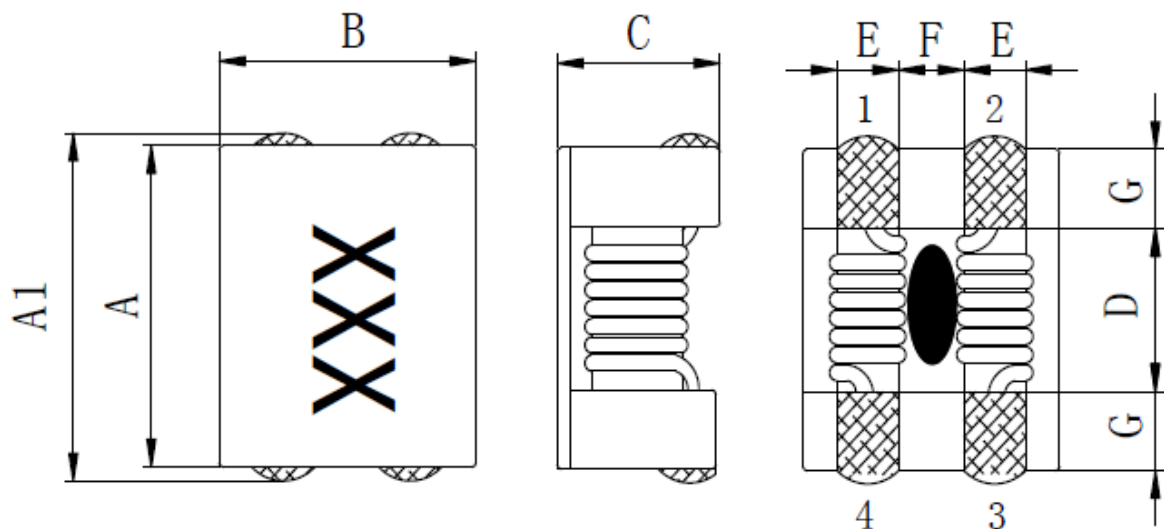
Check Inventory



15.0 x 13.0 x 6.6 mm  
RoHS/RoHS II Compliant  
MSL Level = 1



## Mechanical Specifications



| A          | A1         | B        | C       | D        | E       | G        |
|------------|------------|----------|---------|----------|---------|----------|
| 15.0 ± 0.5 | 15.6 ± 0.5 | 13 ± 0.5 | 6.6 MAX | 9.4 Ref. | 2.6 Ref | 2.5 Ref. |

Dimensions: mm



# Power Common Mode Chokes

ACMP-1566 Series

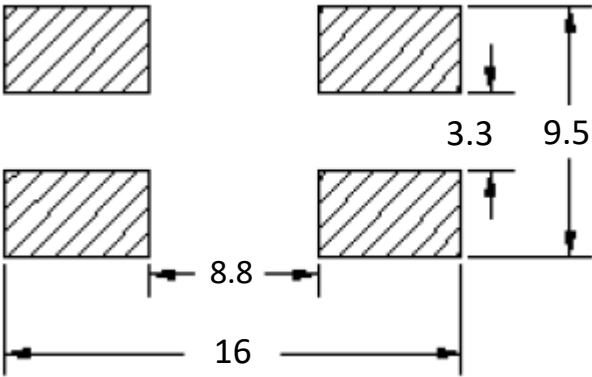
Request Samples



Check Inventory



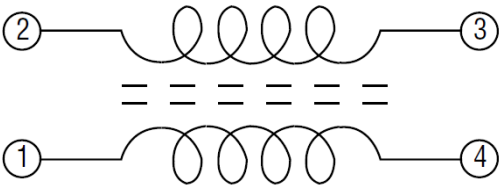
15.0 x 13.0 x 6.6 mm  
RoHS/RoHS II Compliant  
MSL Level = 1



## Recommended Layout

Dimensions: mm

## Schematic



## Materials

| Description | Specification        |
|-------------|----------------------|
| Core        | Ferrite core         |
| Wire        | Enameled copper wire |
| Base        | LCP                  |
| Adhesive    | Epoxy resin          |
| Terminal    | Sn/Cu                |
| Ink         | White                |

# Power Common Mode Chokes



## ACMP-1566 Series

Request Samples

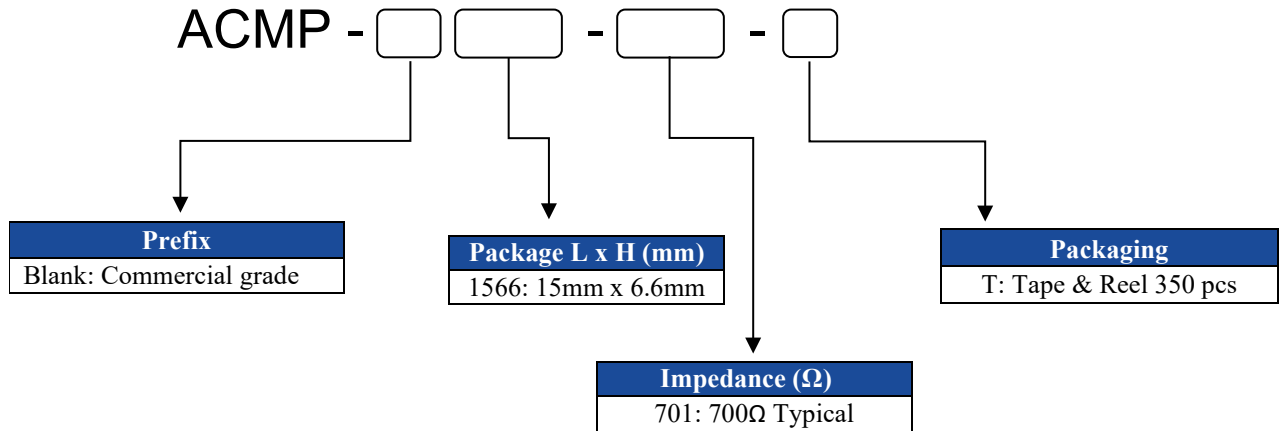


Check Inventory

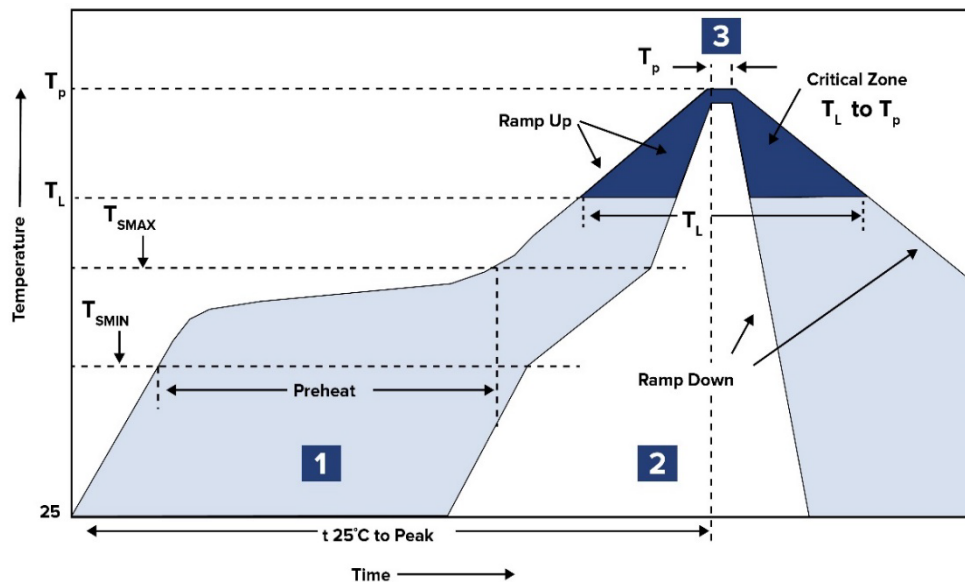


15.0 x 13.0 x 6.6 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

### Part Identification



### Reflow Profile



| Zone | Description | Temperature                               | Times         |
|------|-------------|-------------------------------------------|---------------|
| 1    | Preheat     | $T_{SMIN} \sim T_{SMAX}$<br>150°C ~ 190°C | 60 ~ 120 sec. |
| 2    | Reflow      | $T_L$<br>240°C                            | 20 ~ 40 sec.  |
| 3    | Peak heat   | $T_P$<br>260°C Max.                       | 5 sec. Max    |

1~2 °C/Sec. Ramp

# Power Common Mode Chokes



## ACMP-1566 Series

Request Samples



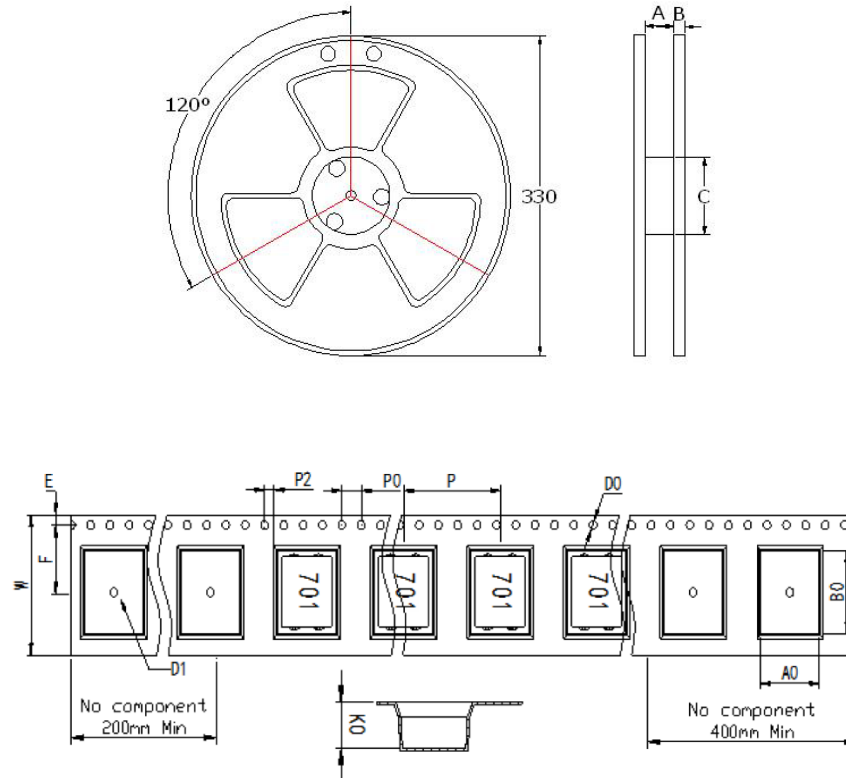
Check Inventory



15.0 x 13.0 x 6.6 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

### Packing

Tape & Reel: 350pcs/reel



| W         | P         | P0         | P2         | D0         | E           | F           | A0        | B0          | K0         |
|-----------|-----------|------------|------------|------------|-------------|-------------|-----------|-------------|------------|
| 24 ± 0.30 | 20 ± 0.10 | 4.0 ± 0.10 | 2.0 ± 0.10 | 1.5 ± 0.10 | 1.75 ± 0.10 | 11.5 ± 0.10 | 14 ± 0.10 | 16.1 ± 0.10 | 6.6 ± 0.10 |

Dimensions: mm

**ATTENTION:** Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



5101 Hidden Creek Ln Spicewood TX 78669  
Phone: 512-371-6159 | Fax: 512-351-8858  
For terms and conditions of sales, please visit:  
[www.abracon.com](http://www.abracon.com)

REVISION: IR 06-29-22

ABRACON IS  
ISO9001-2015  
CERTIFIED