

# SPECIFICATION OF HWCM - LOW PROFILE SERIES

## FEATURES

Special very Lowprofile and small size design,  
Wound chip construction with standard 0805  
or 0603 size, with best EMI suppression effect  
at higher frequency 500MHz~up.  
And least impact to signal wave form.

## APPLICATIONS

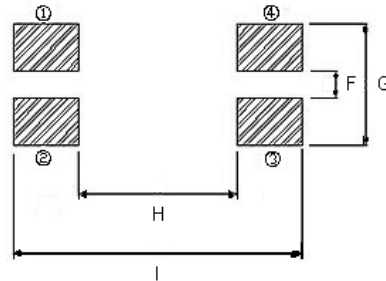
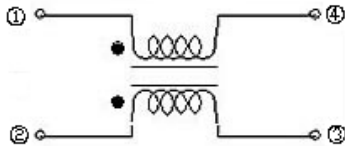
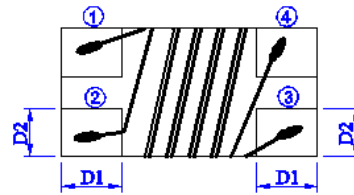
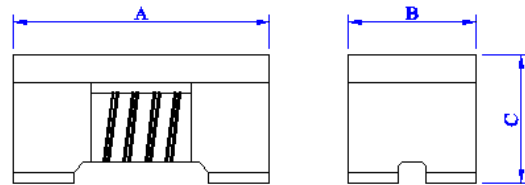
Preventive measure against high speed signal  
radiation emissions such as USB 2.0,  
IEEE1394 or LAN interface.  
Best for NB, DSC, mobile device design.



## ORDERING CODE

HWCM - 1608 - 600 T  
(1) (2) (3) (4)

- (1) PRODUCT TYPE CODE
- (2) PRODUCT SIZE CODE
- (3) IMPEDANCE
- (4) TAPING



## APPEARANCE & DIMENSIONS

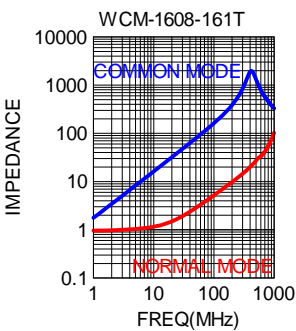
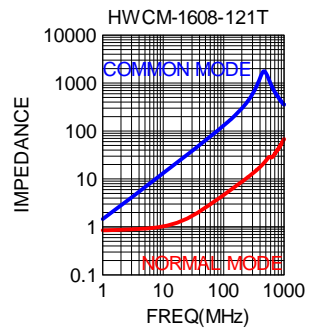
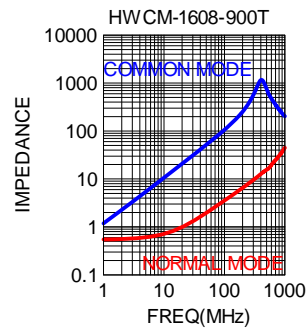
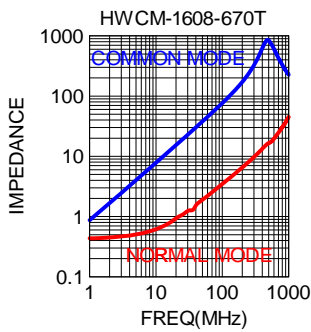
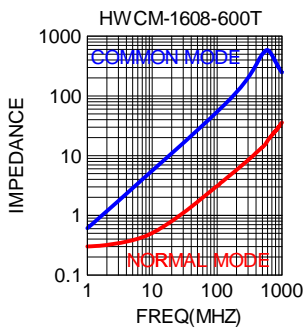
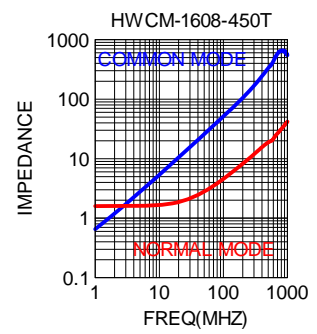
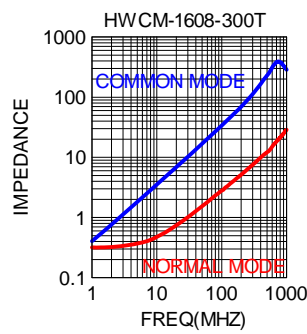
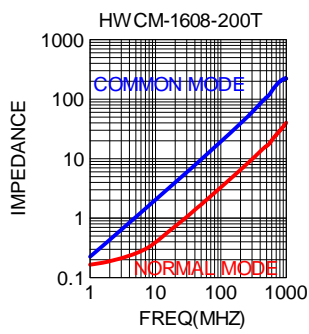
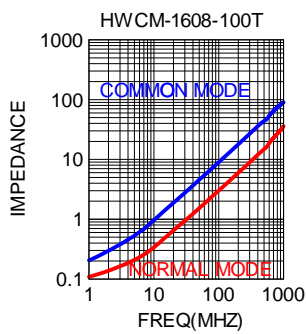
UNIT:mm (inch)

| SIZE CODE         | A                          | B                          | C                          | D1<br>TYP       | D2<br>TYP       | F<br>TYP        | G<br>TYP        | H<br>TYP        | I<br>TYP        |
|-------------------|----------------------------|----------------------------|----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| HWCM-1608<br>0603 | 1.60±0.20<br>(0.063±0.008) | 0.80±0.30<br>(0.031±0.012) | 0.80±0.20<br>(0.031±0.008) | 0.30<br>(0.012) | 0.30<br>(0.012) | 0.30<br>(0.012) | 1.00<br>(0.039) | 0.70<br>(0.028) | 2.10<br>(0.083) |
| HWCM-2012<br>0805 | 2.00±0.20<br>(0.079±0.008) | 1.20±0.30<br>(0.047±0.012) | 0.90±0.20<br>(0.035±0.008) | 0.45<br>(0.018) | 0.40<br>(0.016) | 0.40<br>(0.016) | 1.20<br>(0.047) | 0.80<br>(0.031) | 2.60<br>(0.102) |

# COMMON MODE CHOKE → HWCM-1608 SERIES

## ELECTRICAL CHARACTERISTICS

| ORDERING CODE  | Impedance ( $\Omega$ ) | Tolerance $\pm\%$ | Test Frequency (MHz) | DC Resistance ( $\Omega$ )max | Rated Current (mA)max |
|----------------|------------------------|-------------------|----------------------|-------------------------------|-----------------------|
| HWCM-1608-100T | 10                     | 25%               | 100                  | 0.30                          | 500                   |
| HWCM-1608-200T | 20                     | 25%               | 100                  | 0.40                          | 400                   |
| HWCM-1608-300T | 30                     | 25%               | 100                  | 0.45                          | 350                   |
| HWCM-1608-450T | 45                     | 25%               | 100                  | 0.50                          | 300                   |
| HWCM-1608-600T | 60                     | 25%               | 100                  | 0.50                          | 300                   |
| HWCM-1608-670T | 67                     | 25%               | 100                  | 0.50                          | 300                   |
| HWCM-1608-900T | 90                     | 25%               | 100                  | 0.55                          | 250                   |
| HWCM-1608-121T | 120                    | 25%               | 100                  | 0.80                          | 200                   |
| HWCM-1608-161T | 160                    | 25%               | 100                  | 0.80                          | 200                   |



# COMMON MODE CHOKE → HWCM-2012 SERIES

## ELECTRICAL CHARACTERISTICS

| ORDERING CODE  | Impedance<br>( $\Omega$ ) | Tolerance<br>$\pm\%$ | Test Frequency<br>(MHz) | DC Resistance<br>( $\Omega$ )max | Rated Current<br>(mA)max |
|----------------|---------------------------|----------------------|-------------------------|----------------------------------|--------------------------|
| HWCM-2012-120T | 12                        | 25%                  | 100                     | 0.25                             | 500                      |
| HWCM-2012-900T | 90                        | 25%                  | 100                     | 0.35                             | 400                      |
| HWCM-2012-121T | 120                       | 25%                  | 100                     | 0.40                             | 500                      |
| HWCM-2012-181T | 180                       | 25%                  | 100                     | 0.50                             | 250                      |

