

# **RF MAGNETICS**

## **SURFACE MOUNT PRODUCT GUIDE**

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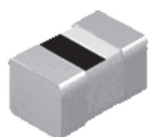
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**CT0201F**

Multilayer Chip Inductors – Ceramic

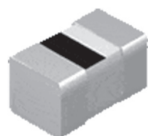
**Description**

SMD ceramic core, multilayer chip inductor for high frequency

**Application Use**

Cellular telephones, cordless telephones, pagers, computer communications, radar detectors, automotive electronics, keyless remotes, and miscellaneous high frequency circuits.

| Inductance    | Ind. Test Freq. | Qmin | SRF               | DCR ( $\Omega$ ) | Current      | Size (mm)          |
|---------------|-----------------|------|-------------------|------------------|--------------|--------------------|
| 1.0nH ~ 100nH | 100MHz          | 4    | 900MHz ~ 10000MHz | 0.11 ~ 4.0       | 60mA ~ 470mA | 0.6L x 0.3W x 0.3H |

**CT0201HQF**

Multilayer Chip Inductors – Ceramic

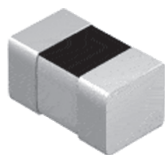
**Description**

SMD ceramic core, high Q multilayer chip inductor for high frequency

**Application Use**

Cellular telephones, Bluetooth, computer communications, radar detectors, automotive electronics, WLAN, UWB, digital TV tuners, keyless remotes and miscellaneous high frequency applications.

| Inductance   | Ind. Test Freq. | Qmin | SRF                | DCR ( $\Omega$ ) | Current       | Size (mm)          |
|--------------|-----------------|------|--------------------|------------------|---------------|--------------------|
| 0.6nH ~ 22nH | 500MHz          | 14   | 1900MHz ~ 10000MHz | 0.06 ~ 1.29      | 190mA ~ 900mA | 0.6L x 0.3W x 0.3H |

**CTLL1005F-FH**

Multilayer Chip Inductors – Ceramic

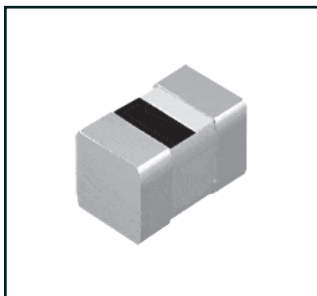
**Description**

SMD ceramic core, multilayer chip inductor for high frequency

**Application Use**

Portable telephones, PMS, pagers and miscellaneous high frequency circuits.

| Inductance    | Ind. Test Freq. | Qmin | SRF               | DCR ( $\Omega$ ) | Current       | Size (mm)          |
|---------------|-----------------|------|-------------------|------------------|---------------|--------------------|
| 1.0nH ~ 120nH | 100MHz          | 8    | 600MHz ~ 10000MHz | 0.07 ~ 2.5       | 100mA ~ 300mA | 1.0L x 0.5W x 0.5H |

**CTLL1005SF**

Multilayer Chip Inductors – Ceramic

**Description**

SMD ceramic core, multilayer chip inductor for high frequency

**Application Use**

Cellular telephones, Bluetooth, computer communications, radar detectors, automotive electronics, WLAN, UWB, digital TV tuners, keyless remotes and miscellaneous high frequency circuits.

| Inductance    | Ind. Test Freq.                                        | Qmin  | SRF               | DCR ( $\Omega$ ) | Current       | Size (mm)          |
|---------------|--------------------------------------------------------|-------|-------------------|------------------|---------------|--------------------|
| 1.0nH ~ 360nH | 1.0nH ~ 270nH<br>@ 100MHz;<br>330nH ~ 360nH<br>@ 50MHz | 6 ~ 8 | 350MHz ~ 10000MHz | 0.06 ~ 6.0       | 80mA ~ 1000mA | 1.0L x 0.5W x 0.5H |

**CTLL1608F**

Multilayer Chip Inductors – Ceramic

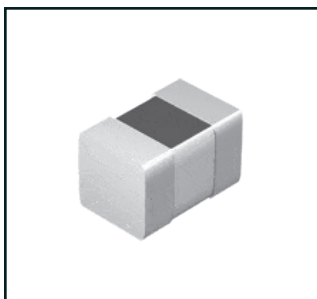
**Description**

SMD ceramic core, multilayer chip inductor for high frequency

**Application Use**

Portable telephones, PMS, pagers and miscellaneous high frequency circuits.

| Inductance    | Ind. Test Freq. | Qmin   | SRF              | DCR ( $\Omega$ ) | Current | Size (mm)          |
|---------------|-----------------|--------|------------------|------------------|---------|--------------------|
| 1.2nH ~ 100nH | 100MHz          | 3 ~ 40 | 830MHz ~ 6000MHz | 0.1 ~ 2.5        | 300mA   | 1.6L x 0.8W x 0.8H |

**CTLL1608F-FH**

Multilayer Chip Inductors – Ceramic

**Description**

SMD ceramic core, multilayer chip inductor for high frequency

**Application Use**

Portable telephones, PMS, pagers and miscellaneous high frequency circuits.

| Inductance    | Ind. Test Freq.                                        | Qmin   | SRF               | DCR ( $\Omega$ ) | Current       | Size (mm)          |
|---------------|--------------------------------------------------------|--------|-------------------|------------------|---------------|--------------------|
| 1.0nH ~ 220nH | 1.0nH ~ 100nH<br>@ 100MHz;<br>120nH ~ 220nH<br>@ 50MHz | 8 ~ 12 | 500MHz ~ 10000MHz | 0.1 ~ 2.0        | 250mA ~ 600mA | 1.6L x 0.8W x 0.8H |

**CTLL1608SF**

Multilayer Chip Inductors – Ceramic

**Description**

SMD ceramic core, multilayer chip inductor for high frequency

**Application Use**

Cellular phones, Bluetooth, computer communications, radar detectors, automotive electronics, WLAN, UWB, digital TV tuners, keyless remotes, miscellaneous high frequency circuits

| Inductance    | Ind. Test Freq.                                  | Qmin   | SRF             | DCR ( $\Omega$ ) | Current       | Size (mm)          |
|---------------|--------------------------------------------------|--------|-----------------|------------------|---------------|--------------------|
| 1.0nH ~ 470nH | 1.0nH ~ 100nH @ 100MHz;<br>120nH ~ 470nH @ 50MHz | 8 ~ 12 | 0.25GHz ~ 10GHz | 0.05 ~ 3.6       | 150mA ~ 500mA | 1.6L x 0.8W x 0.8H |

**CTLL2012SF**

Multilayer Chip Inductors – Ceramic

**Description**

SMD ceramic core, multilayer chip inductor for high frequency

**Application Use**

Cellular phones, Bluetooth, computer communications, radar detectors, automotive electronics, WLAN, UWB, digital TV tuners, keyless remotes, miscellaneous high frequency circuits

| Inductance    | Ind. Test Freq. | Qmin    | SRF            | DCR ( $\Omega$ ) | Current | Size (mm)            |
|---------------|-----------------|---------|----------------|------------------|---------|----------------------|
| 1.0nH ~ 120nH | 100MHz          | 10 ~ 18 | 0.5GHz ~ 10GHz | 0.10 ~ 0.95      | 300mA   | 2.0L x 1.25W x 0.85H |

**CTML0603F**

Multilayer Chip Inductors – Ferrite

**Description**

SMD ferrite core, multilayer chip inductor

**Application Use**

LC resonant circuits such as oscillator and signal generators, RF filters, disk drives, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance                 | Ind. Test Freq.                                                                                                                                                                                                                | Qmin    | SRF            | DCR ( $\Omega$ ) | Current      | Size (mm)          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|------------------|--------------|--------------------|
| 0.047 $\mu$ H ~ 22 $\mu$ H | 0.047 $\mu$ H ~ 0.082 $\mu$ H @ 50MHz;<br>0.10 $\mu$ H ~ 0.82 $\mu$ H @ 25MHz;<br>1.0 $\mu$ H ~ 4.7 $\mu$ H @ 10MHz;<br>5.6 $\mu$ H ~ 8.2 $\mu$ H @ 4MHz;<br>10 $\mu$ H ~ 12 $\mu$ H @ 2MHz;<br>15 $\mu$ H ~ 22 $\mu$ H @ 1MHz | 10 ~ 35 | 11MHz ~ 260MHz | 0.30 ~ 2.1       | 1.0mA ~ 50mA | 1.6L x 0.8W x 0.8H |

**CTML0805F**

Multilayer Chip Inductors – Ferrite

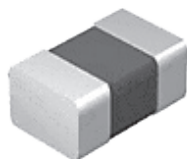
**Description**

SMD ferrite core, multilayer chip inductor

**Application Use**

LC resonant circuits such as oscillator and signal generators, RF filters, disk drives, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance     | Ind. Test Freq.                                                                                                                                        | Qmin    | SRF            | DCR (Ω)    | Current       | Size (mm)                |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|------------|---------------|--------------------------|
| 0.047μH ~ 27μH | 0.047μH ~ 0.082μH @ 50MHz;<br>0.10μH ~ 0.82μH @ 25MHz;<br>1.0μH ~ 4.7μH @ 10MHz;<br>5.6μH ~ 8.2μH @ 4MHz;<br>10μH ~ 12μH @ 2MHz;<br>15μH ~ 27μH @ 1MHz | 15 ~ 50 | 14MHz ~ 320MHz | 0.20 ~ 1.2 | 5.0mA ~ 300mA | 2.0L x 1.25W x 0.9~1.25H |

**CTML1206F**

Multilayer Chip Inductors – Ferrite

**Description**

SMD ferrite core, multilayer chip inductor

**Application Use**

LC resonant circuits such as oscillator and signal generators, RF filters, disk drives, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance     | Ind. Test Freq.                                                                                                                                                           | Qmin    | SRF            | DCR (Ω)    | Current       | Size (mm)          |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|------------|---------------|--------------------|
| 0.047μH ~ 33μH | 0.047μH ~ 0.082μH @ 50MHz;<br>0.10μH ~ 0.82μH @ 25MHz;<br>1.0μH ~ 4.7μH @ 10MHz;<br>5.6μH ~ 8.2μH @ 4MHz;<br>10μH ~ 12μH @ 2MHz;<br>15μH ~ 27μH @ 1MHz;<br>33μH @ 0.40MHz | 25 ~ 45 | 13MHz ~ 320MHz | 0.15 ~ 1.0 | 5.0mA ~ 300mA | 3.2L x 1.6W x 1.3H |

**CTML1206HCF**

Multilayer Chip Inductors – Ferrite

**Description**

SMD ferrite core, multilayer chip inductor

**Application Use**

LC resonant circuits such as oscillator and signal generators, RF filters, disk drives, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance     | Ind. Test Freq. | Qmin | SRF            | DCR (Ω)     | Current         | Size (mm)          |
|----------------|-----------------|------|----------------|-------------|-----------------|--------------------|
| 0.47μH ~ 4.7μH | 1MHz            |      | 20MHz ~ 100MHz | 0.14 ~ 0.30 | 1100mA ~ 1500mA | 3.2L x 1.6W x 1.1H |

**CTTF0201F**

Thin Film Chip Inductors – Ceramic

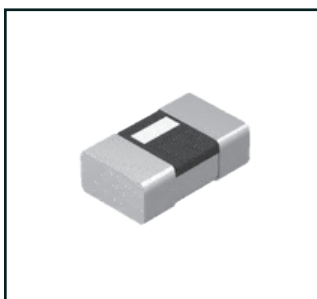
**Description**

SMD thin film chip inductor

**Application Use**

Cellular telephone, pagers, GPS products, wireless LAN and other communication appliances, VCO, TCXO, circuit and RF Transceiver Module.

| Inductance   | Ind. Test Freq. | Qmin | SRF               | DCR ( $\Omega$ ) | Current      | Size (mm)           |
|--------------|-----------------|------|-------------------|------------------|--------------|---------------------|
| 0.1nH ~ 10nH | 500MHz          |      | 2000MHz ~ 9000MHz | 0.2 ~ 3.5        | 80mA ~ 400mA | 0.6L x 0.3W x 0.23H |

**CTTF0201HCF**

Thin Film Chip Inductors – Ceramic

**Description**

SMD high current thin film chip inductor

**Application Use**

Cellular telephone, pagers, GPS products, wireless LAN and other communication appliances, VCO, TCXO, circuit and RF Transceiver Module.

| Inductance    | Ind. Test Freq. | Qmin | SRF     | DCR ( $\Omega$ ) | Current       | Size (mm)           |
|---------------|-----------------|------|---------|------------------|---------------|---------------------|
| 0.1nH ~ 4.0nH | 500MHz          | 10   | 6000MHz | 0.05 ~ 0.80      | 350mA ~ 600mA | 0.6L x 0.3W x 0.23H |

**CTTF0402F**

Thin Film Chip Inductors – Ceramic

**Description**

SMD thin film chip inductor

**Application Use**

Cellular telephone, pagers, GPS products, wireless LAN and other communication appliances, VCO, TCXO, circuit and RF Transceiver Module.

| Inductance   | Ind. Test Freq. | Qmin | SRF               | DCR ( $\Omega$ ) | Current      | Size (mm)           |
|--------------|-----------------|------|-------------------|------------------|--------------|---------------------|
| 0.2nH ~ 33nH | 500MHz          | 13   | 2800MHz ~ 6000MHz | 0.1 ~ 2.5        | 75mA ~ 800mA | 1.0L x 0.5W x 0.35H |

**CT0201CSF**

Wire-wound Chip Inductors – Ceramic

**Description**

SMD ceramic core wire-wound chip inductor

**Application Use**

RF products for cellular phone, GPS receiver, Base Station, Repeater, Wireless LAN/mouse/keyboard/earphone, Remote control, Security system.

| Inductance   | Ind. Test Freq. | Qmin   | SRF                | DCR ( $\Omega$ ) | Current        | Size (mm)             |
|--------------|-----------------|--------|--------------------|------------------|----------------|-----------------------|
| 0.5nH ~ 14nH | 250MHz          | 4 ~ 18 | 5100MHz ~ 24500MHz | 0.02 ~ 0.5       | 270mA ~ 1250mA | 0.58L x 0.46W x 0.45H |

**CT0402CSF**

Wire-wound Chip Inductors – Ceramic

**Description**

SMD ceramic core wire-wound chip inductor

**Application Use**

Telecommunication equipment, mobile phones, small size pagers, computers, printers and relevant equipment. Also, audio and video applications, the automotive electronics industry and high frequency applications.

| Inductance    | Ind. Test Freq. | Qmin    | SRF                | DCR ( $\Omega$ ) | Current       | Size (mm)            |
|---------------|-----------------|---------|--------------------|------------------|---------------|----------------------|
| 1.0nH ~ 120nH | 250MHz          | 15 ~ 25 | 1800MHz ~ 12700MHz | 0.045 ~ 2.66     | 30mA ~ 1360mA | 1.0L x 0.68W x 0.55H |

**CT0402HPF**

Wire-wound Chip Inductors – Ceramic

**Description**

SMD ceramic core wire-wound chip inductor

**Application Use**

Cellular phone, cordless phone, remote control, security systems, wireless PDA, mouse, keyboard, GPS receiver, set top box, base station, repeater.

| Inductance   | Ind. Test Freq. | Qmin    | SRF                | DCR ( $\Omega$ ) | Current        | Size (mm)             |
|--------------|-----------------|---------|--------------------|------------------|----------------|-----------------------|
| 1.0nH ~ 51nH | 250MHz          | 46 ~ 73 | 2300MHz ~ 16000MHz | 0.03 ~ 0.7       | 360mA ~ 2300mA | 1.27L x 0.76W x 0.61H |

**CT0402QWF**

Wire-wound Chip Inductors – Ceramic

**Description**

SMD ceramic core wire-wound chip inductor

**Application Use**

RF products for cellular phone, GPS receivers, base stations, repeaters, wireless LAN/mouse/keyboard/earphone, remote controls, security systems and high frequency applications.

| Inductance    | Ind. Test Freq. | Qmin    | SRF                | DCR ( $\Omega$ ) | Current        | Size (mm)           |
|---------------|-----------------|---------|--------------------|------------------|----------------|---------------------|
| 1.5nH ~ 120nH | 100MHz          | 10 ~ 30 | 1000MHz ~ 18000MHz | 0.03W ~ 2.66W    | 110mA ~ 1000mA | 1.05L x 0.6W x 0.5H |

**CT0603CSF**

Wire-wound Chip Inductors – Ceramic

**Description**

SMD ceramic core wire-wound chip inductor

**Application Use**

RF products for cellular phone, GPS receivers, base stations, repeaters, wireless LAN/mouse/keyboard/earphone, remote controls, security systems and high frequency applications.

| Inductance    | Ind. Test Freq.                                                                            | Qmin    | SRF               | DCR ( $\Omega$ ) | Current       | Size (mm)            |
|---------------|--------------------------------------------------------------------------------------------|---------|-------------------|------------------|---------------|----------------------|
| 1.6nH ~ 390nH | 1.6nH ~ 43nH @ 250MHz; 47nH ~ 68nH @ 200MHz; 72nH ~ 150nH @ 150MHz; 180nH ~ 390nH @ 100MHz | 13 ~ 40 | 900MHz ~ 12500MHz | 0.03 ~ 4.35      | 100mA ~ 700mA | 1.8L x 1.12W x 1.02H |

**CT0603CTF**

Wire-wound Chip Inductors – Ceramic

**Description**

SMD ceramic core wire-wound chip inductor

**Application Use**

RF products for cellular phone, GPS receivers, base stations, repeaters, wireless LAN/mouse/keyboard/earphone, remote controls, security systems and high frequency applications.

| Inductance   | Ind. Test Freq. | Qmin    | SRF                | DCR ( $\Omega$ ) | Current        | Size (mm)           |
|--------------|-----------------|---------|--------------------|------------------|----------------|---------------------|
| 1.0nH ~ 56nH | 250MHz          | 12 ~ 29 | 1750MHz ~ 16000MHz | 0.034 ~ 0.7      | 420mA ~ 1900mA | 1.6L x 0.9W x 0.55H |



## CT0603HCF

Wire-wound Chip Inductors – Ceramic

### Description

SMD high current ceramic core wire-wound chip inductor

### Application Use

Telecommunication equipment, mobile phones, small size pagers, computers, printers and relevant equipment. Also, audio and video applications and the automotive electronics industry. High frequency applications.

| Inductance   | Ind. Test Freq. | Qmin    | SRF                | DCR ( $\Omega$ ) | Current         | Size (mm)            |
|--------------|-----------------|---------|--------------------|------------------|-----------------|----------------------|
| 1.6nH ~ 26nH | 250MHz          | 24 ~ 42 | 2400MHz ~ 12500MHz | 0.03 ~ 0.105     | 1800mA ~ 2400mA | 1.8L x 1.12W x 1.02H |



## CT0603HPF

Wire-wound Chip Inductors – Ceramic

### Description

SMD ceramic core wire-wound chip inductor

### Application Use

Cellular phone, cordless phone, remote control, security systems, wireless PDA, wireless LAN, mouse, keyboard, GPS receiver, set top box, base station, repeater.

| Inductance    | Ind. Test Freq.                                                                            | Qmin    | SRF               | DCR ( $\Omega$ ) | Current        | Size (mm)           |
|---------------|--------------------------------------------------------------------------------------------|---------|-------------------|------------------|----------------|---------------------|
| 1.8nH ~ 390nH | 1.8nH ~ 43nH @ 250MHz; 47nH ~ 68nH @ 200MHz; 72nH ~ 150nH @ 150MHz; 180nH ~ 390nH @ 100MHz | 13 ~ 49 | 880MHz ~ 16000MHz | 0.033 ~ 4.0      | 170mA ~ 2100mA | 1.6L x 1.0W x 0.82H |



## CT0603HPHF

Wire-wound Chip Inductors – Ceramic

### Description

SMD ceramic core wire-wound chip inductor

### Application Use

Cellular phone, cordless phone, remote control, security systems, wireless PDA, wireless LAN, mouse, keyboard, GPS receiver, set top box, base station, repeater.

| Inductance   | Ind. Test Freq. | Qmin    | SRF               | DCR ( $\Omega$ ) | Current         | Size (mm)            |
|--------------|-----------------|---------|-------------------|------------------|-----------------|----------------------|
| 3.3nH ~ 18nH | 250MHz          | 28 ~ 49 | 3300MHz ~ 9600MHz | 0.034 ~ 0.088    | 1100mA ~ 1900mA | 1.6L x 1.12W x 0.82H |

**CT0603QWF**

Wire-wound Chip Inductors – Ceramic

**Description**

SMD ceramic core wire-wound chip inductor

**Application Use**

RF products for cellular phone, GPS receivers, base stations, repeaters, wireless LAN/mouse/keyboard/earphone, remote controls, security systems and high frequency applications.

| Inductance    | Ind. Test Freq. | Qmin    | SRF              | DCR ( $\Omega$ ) | Current      | Size (mm)            |
|---------------|-----------------|---------|------------------|------------------|--------------|----------------------|
| 2.2nH ~ 470nH | 100MHz          | 16 ~ 40 | 700MHz ~ 6000MHz | 0.049 ~ 7.0      | 75mA ~ 850mA | 1.6L x 1.02W x 0.82H |

**CT0805CSF**

Wire-wound Chip Inductors – Ceramic

**Description**

SMD ceramic core wire-wound chip inductor

**Application Use**LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance     | Ind. Test Freq.                                                                                                                                             | Qmin    | SRF             | DCR ( $\Omega$ ) | Current       | Size (mm)             |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|------------------|---------------|-----------------------|
| 2.2nH ~ 2700nH | 2.2nH ~ 39nH @ 250MHz; 43nH ~ 72nH @ 200MHz; 82nH ~ 120nH @ 150MHz; 150nH ~ 390nH @ 100MHz; 470nH @ 50MHz; 560nH ~ 1000nH @ 25MHz; 1200nH ~ 2700nH @ 7.9MHz | 15 ~ 80 | 50MHz ~ 6000MHz | 0.06 ~ 2.95      | 150mA ~ 800mA | 2.35L x 1.73W x 1.52H |

**CT0805HQF**

Wire-wound Chip Inductors – Ceramic

**Description**

SMD high Q ceramic core wire-wound chip inductor

**Application Use**LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance   | Ind. Test Freq.                             | Qmin    | SRF               | DCR ( $\Omega$ ) | Current         | Size (mm)             |
|--------------|---------------------------------------------|---------|-------------------|------------------|-----------------|-----------------------|
| 2.5nH ~ 51nH | 2.5nH ~ 39nH @ 250MHz; 48nH ~ 51nH @ 200MHz | 65 ~ 98 | 1400MHz ~ 6000MHz | 0.02 ~ 0.12      | 1000mA ~ 1600mA | 2.29L x 1.78W x 1.56H |



## CT0805HTF

Wire-wound Chip Inductors – Ceramic

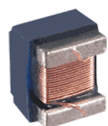
### Description

SMD ceramic core wire-wound chip inductor

### Application Use

LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance     | Ind. Test Freq.                                                                                                                                  | Qmin    | SRF              | DCR ( $\Omega$ ) | Current       | Size (mm)            |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------|------------------|---------------|----------------------|
| 1.8nH ~ 1000nH | 1.8nH ~ 39nH @ 250MHz;<br>47nH ~ 68nH @ 200MHz; 82nH<br>~ 270nH @ 150MHz; 330nH<br>~ 390nH @ 100MHz; 470nH<br>@ 50MHz; 560nH ~ 1000nH<br>@ 25MHz | 17 ~ 55 | 330MHz ~ 9400MHz | 0.03 ~ 3.1       | 300mA ~ 800mA | 2.35L x 1.73W x 1.1H |



## CT1008CSF

Wire-wound Chip Inductors – Ceramic

### Description

SMD ceramic core wire-wound chip inductor

### Application Use

LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance      | Ind. Test Freq.                                                                                       | Qmin    | SRF             | DCR ( $\Omega$ ) | Current        | Size (mm)            |
|-----------------|-------------------------------------------------------------------------------------------------------|---------|-----------------|------------------|----------------|----------------------|
| 3.9nH ~ 10000nH | 3.9nH ~ 82nH @ 50MHz;<br>100nH ~ 1000nH @<br>25MHz; 1200nH ~ 8200nH<br>@ 7.9MHz; 10000nH @<br>2.52MHz | 15 ~ 65 | 20MHz ~ 6000MHz | 0.05 ~ 9.0       | 150mA ~ 1100mA | 2.92L x 2.79W x 2.1H |



## CT1008HQQ

Wire-wound Chip Inductors – Ceramic

### Description

SMD high Q ceramic core wire-wound chip inductor

### Application Use

LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance    | Ind. Test Freq.                                    | Qmin    | SRF              | DCR ( $\Omega$ ) | Current        | Size (mm)            |
|---------------|----------------------------------------------------|---------|------------------|------------------|----------------|----------------------|
| 3.0nH ~ 390nH | 3.0nH ~ 100nH @<br>50MHz; 120nH ~<br>390nH @ 25MHz | 48 ~ 80 | 530MHz ~ 6000MHz | 0.04 ~ 0.70      | 900mA ~ 1600mA | 2.96L x 2.79W x 2.1H |



## CT1206CSF

Wire-wound Chip Inductors – Ceramic

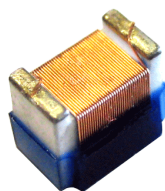
### Description

SMD ceramic core wire-wound chip inductor

### Application Use

Telecommunication equipment, mobile phones, small size pagers, computers, printers and relevant equipment. Also, audio and video applications and the automotive electronics industry. High frequency applications.

| Inductance     | Ind. Test Freq.                                                       | Qmin    | SRF              | DCR ( $\Omega$ ) | Current        | Size (mm)             |
|----------------|-----------------------------------------------------------------------|---------|------------------|------------------|----------------|-----------------------|
| 3.3nH ~ 1200nH | 3.3nH ~ 150nH @ 100MHz; 180nH ~ 560nH @ 50MHz; 680nH ~ 1200nH @ 35MHz | 30 ~ 60 | 380MHz ~ 6000MHz | 0.05 ~ 3.2       | 300mA ~ 1000mA | 3.56L x 2.16W x 1.52H |



## CT1812CSF

Wire-wound Chip Inductors – Ceramic

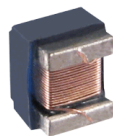
### Description

SMD ceramic core wire-wound chip inductor

### Application Use

RF products for cellular phone, GPS receivers, base stations, repeaters, wireless LAN/mouse/keyboard/earphone, remote controls, security systems.

| Inductance               | Ind. Test Freq.                                                     | Qmin    | SRF            | DCR ( $\Omega$ ) | Current       | Size (mm)             |
|--------------------------|---------------------------------------------------------------------|---------|----------------|------------------|---------------|-----------------------|
| 1.0 $\mu$ H ~ 33 $\mu$ H | 1.0 $\mu$ H ~ 10 $\mu$ H @ 7.9MHz; 12 $\mu$ H ~ 33 $\mu$ H @ 2.5MHz | 20 ~ 68 | 20MHz ~ 310MHz | 1.2 ~ 13.5       | 145mA ~ 480mA | 4.95L x 3.81W x 3.43H |



## CT0201LSF

Wire-wound Chip Inductors – Ferrite

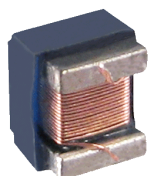
### Description

SMD ferrite core wire-wound chip inductor

### Application Use

Telecom and datacom appliances such as xDSL, Cable modem, Set top box, CATV filter/tuner, Wireless LAN

| Inductance    | Ind. Test Freq. | Qmin  | SRF               | DCR ( $\Omega$ ) | Current        | Size (mm)             |
|---------------|-----------------|-------|-------------------|------------------|----------------|-----------------------|
| 2.2nH ~ 200nH | 100MHz          | 5 ~ 9 | 1400MHz ~ 3000MHz | 0.09 ~ 0.95      | 260mA ~ 1600mA | 0.58L x 0.46W x 0.45H |

**CT0402LSF**

Wire-wound Chip Inductors – Ferrite

**Description**

SMD ferrite core wire-wound chip inductor

**Application Use**

Telecom, cable modem, set top box, CATV filter/tuner, wireless LAN

| Inductance                   | Ind. Test Freq.                                                                                                                                                | Qmin | SRF              | DCR ( $\Omega$ ) | Current        | Size (mm)             |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------|------------------|----------------|-----------------------|
| 0.020 $\mu$ H ~ 0.56 $\mu$ H | 0.020 $\mu$ H ~ 0.10 $\mu$ H @ 100MHz;<br>0.14 $\mu$ H ~ 0.22 $\mu$ H @ 50MHz;<br>0.25 $\mu$ H ~ 0.30 $\mu$ H @ 25MHz;<br>0.33 $\mu$ H ~ 0.56 $\mu$ H @ 7.9MHz |      | 600MHz ~ 2600MHz | 0.05 ~ 1.1       | 200mA ~ 1600mA | 1.02L x 0.55W x 0.56H |

**CT0603LSF**

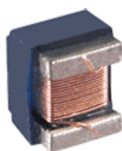
Wire-wound Chip Inductors – Ferrite

**Description**

SMD ferrite core wire-wound chip inductor

**Application Use**LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance     | Ind. Test Freq. | Qmin    | SRF             | DCR ( $\Omega$ ) | Current        | Size (mm)            |
|----------------|-----------------|---------|-----------------|------------------|----------------|----------------------|
| 47nH ~ 10000nH | 7.9MHz          | 17 ~ 19 | 40MHz ~ 1700MHz | 0.075 ~ 4.8      | 300mA ~ 1500mA | 1.8L x 1.25W x 1.02H |

**CT0805FSF**

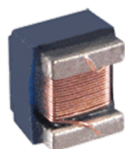
Wire-wound Chip Inductors – Ferrite

**Description**

SMD ferrite core wire-wound chip inductor

**Application Use**LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance                 | Ind. Test Freq.                                                            | Qmin    | SRF            | DCR ( $\Omega$ ) | Current        | Size (mm)             |
|----------------------------|----------------------------------------------------------------------------|---------|----------------|------------------|----------------|-----------------------|
| 0.12 $\mu$ H ~ 8.2 $\mu$ H | 0.12 $\mu$ H ~ 0.82 $\mu$ H @ 25.2MHz; 1.0 $\mu$ H ~ 8.2 $\mu$ H @ 7.96MHz | 15 ~ 20 | 33MHz ~ 900MHz | 0.18 ~ 3.3       | 180mA ~ 1100mA | 2.29L x 1.73W x 1.45H |

**CT0805LDLSF**

Wire-wound Chip Inductors – Ferrite

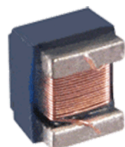
**Description**

SMD ferrite core wire-wound chip inductor. Low DC resistance.

**Application Use**

LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance                | Ind. Test Freq.                                                                               | Qmin    | SRF           | DCR ( $\Omega$ ) | Current      | Size (mm)            |
|---------------------------|-----------------------------------------------------------------------------------------------|---------|---------------|------------------|--------------|----------------------|
| 1.0 $\mu$ H ~ 100 $\mu$ H | 1.0 $\mu$ H ~ 6.8 $\mu$ H @ 7.96MHz; 10 $\mu$ H ~ 68 $\mu$ H @ 2.52MHz; 100 $\mu$ H @ 1.00MHz | 12 ~ 24 | 9MHz ~ 100MHz | 0.10 ~ 9.0       | 70mA ~ 800mA | 2.4L x 1.72W x 1.52H |

**CT0805LSF**

Wire-wound Chip Inductors – Ferrite

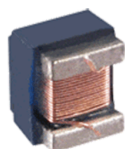
**Description**

SMD ferrite core wire-wound chip inductor.

**Application Use**

LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance     | Ind. Test Freq.                                   | Qmin    | SRF             | DCR ( $\Omega$ ) | Current        | Size (mm)            |
|----------------|---------------------------------------------------|---------|-----------------|------------------|----------------|----------------------|
| 78nH ~ 47000nH | 78nH ~ 6800nH @ 7.9MHz; 8200nH ~ 47000nH @ 2.5MHz | 16 ~ 20 | 15MHz ~ 1400MHz | 0.06 ~ 14.5      | 180mA ~ 2000mA | 2.29L x 1.6W x 1.52H |

**CT1008LDLSF**

Wire-wound Chip Inductors – Ferrite

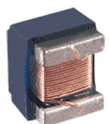
**Description**

SMD ferrite core wire-wound chip inductor. Low DC resistance.

**Application Use**

LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance               | Ind. Test Freq. | Qmin    | SRF            | DCR ( $\Omega$ ) | Current        | Size (mm)           |
|--------------------------|-----------------|---------|----------------|------------------|----------------|---------------------|
| 0.9 $\mu$ H ~ 10 $\mu$ H | 2.5MHz          | 20 ~ 25 | 20MHz ~ 300MHz | 0.10 ~ 0.48      | 450mA ~ 1400mA | 2.99L x 2.5W x 2.2H |



## CT1008LSCF

Wire-wound Chip Inductors – Ferrite

### Description

SMD ferrite core wire-wound chip inductor.

### Application Use

LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance                  | Ind. Test Freq.                                                                                                                                                                          | Qmin   | SRF             | DCR ( $\Omega$ ) | Current        | Size (mm)            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------|------------------|----------------|----------------------|
| 0.005 $\mu$ H ~ 100 $\mu$ H | 0.005 $\mu$ H ~ 0.10 $\mu$ H @ 100MHz;<br>0.12 $\mu$ H ~ 0.82 $\mu$ H @ 25.2MHz;<br>1.0 $\mu$ H ~ 8.2 $\mu$ H @ 7.96MHz;<br>10 $\mu$ H ~ 82 $\mu$ H @ 2.52MHz;<br>100 $\mu$ H @ 0.796MHz | 8 ~ 35 | 12MHz ~ 3000MHz | 0.25 ~ 21        | 120mA ~ 2000mA | 2.92L x 2.79W x 2.1H |



## CT1008LSF

Wire-wound Chip Inductors – Ferrite

### Description

SMD ferrite core wire-wound chip inductor.

### Application Use

LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance               | Ind. Test Freq. | Qmin    | SRF            | DCR ( $\Omega$ ) | Current       | Size (mm)            |
|--------------------------|-----------------|---------|----------------|------------------|---------------|----------------------|
| 1.0 $\mu$ H ~ 15 $\mu$ H | 7.9MHz          | 23 ~ 48 | 38MHz ~ 230MHz | 0.62 ~ 2.95      | 300mA ~ 700mA | 2.99L x 2.79W x 2.2H |



## CT1008PSF

Wire-wound Chip Inductors – Ferrite

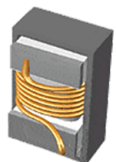
### Description

SMD shielded ferrite core wire-wound chip inductor.

### Application Use

LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance                 | Ind. Test Freq. | Qmin    | SRF             | DCR ( $\Omega$ ) | Current      | Size (mm)             |
|----------------------------|-----------------|---------|-----------------|------------------|--------------|-----------------------|
| 1.0 $\mu$ H ~ 1000 $\mu$ H | 100kHz          | 20 ~ 33 | 1.5MHz ~ 344MHz | 0.05 ~ 29.2      | 0.10A ~ 3.0A | 3.81L x 3.81W x 2.94H |



## CT1210LSCF

Wire-wound Chip Inductors – Ferrite

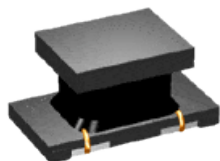
### Description

SMD ferrite core wire-wound chip inductor.

### Application Use

LC resonant circuits such as oscillator and signal generators, Impedance ( $\Omega$ ) matching, circuit isolation, RF filters, disk drives and computer peripherals, audio and video equipment, TV, radio and telecommunication equipment.

| Inductance                 | Ind. Test Freq.                                                                                                                    | Qmin    | SRF           | DCR ( $\Omega$ ) | Current       | Size (mm)          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------|---------------|------------------|---------------|--------------------|
| 0.47 $\mu$ H ~ 680 $\mu$ H | 0.47 $\mu$ H @ 25.2MHz; 1.0 $\mu$ H ~ 8.2 $\mu$ H @ 7.96MHz; 10 $\mu$ H ~ 68 $\mu$ H 2.52MHz; 100 $\mu$ H ~ 680 $\mu$ H @ 0.796MHz | 15 ~ 40 | 2MHz ~ 450MHz | 0.07 ~ 28        | 65mA ~ 1800mA | 3.7L x 2.9W x 2.6H |



## CTLQ1206NF

Wire-wound Chip Inductors – Ferrite

### Description

SMD wire-wound chip inductor.

### Application Use

Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

| Inductance                 | Ind. Test Freq. | Qmin    | SRF           | DCR ( $\Omega$ ) | Current      | Size (mm)          |
|----------------------------|-----------------|---------|---------------|------------------|--------------|--------------------|
| 0.15 $\mu$ H ~ 100 $\mu$ H | 1.0MHz          | 20 ~ 40 | 7MHz ~ 250MHz | 0.54 ~ 15.6      | 45mA ~ 250mA | 3.2L x 1.6W x 1.8H |



## CTLQ121006HF

Wire-wound Chip Inductors – Ferrite

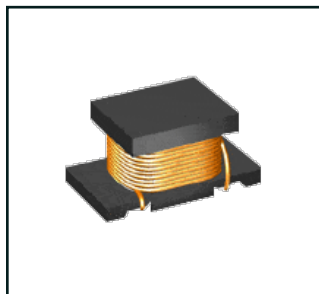
### Description

SMD wire-wound chip inductor.

### Application Use

Personal computers, disk drives and computer peripherals, portable communication equipment, DC power supply circuit

| Inductance                | Ind. Test Freq. | Qmin | SRF            | DCR ( $\Omega$ ) | Current        | Size (mm)           |
|---------------------------|-----------------|------|----------------|------------------|----------------|---------------------|
| 0.47 $\mu$ H ~ 47 $\mu$ H | 1.0MHz          |      | 11MHz ~ 100MHz | 0.030 ~ 1.48     | 280mA ~ 3400mA | 3.2L x 2.5W x 1.55H |



## CTLQ1210CF

Wire-wound Chip Inductors – Ferrite

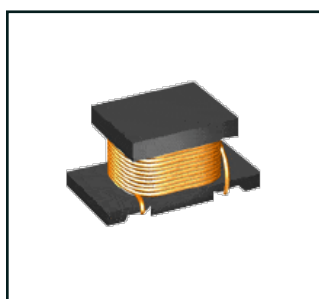
### Description

SMD wire-wound chip inductor.

### Application Use

Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

| Inductance                | Ind. Test Freq.                                                    | Qmin | SRF          | DCR ( $\Omega$ ) | Current      | Size (mm)          |
|---------------------------|--------------------------------------------------------------------|------|--------------|------------------|--------------|--------------------|
| 1.0 $\mu$ H ~ 560 $\mu$ H | 1.0 $\mu$ H ~ 390 $\mu$ H @ 1MHz; 470 $\mu$ H ~ 560 $\mu$ H @ 1kHz |      | 5MHz ~ 96MHz | 0.12 ~ 30        | 60mA ~ 800mA | 3.2L x 2.5W x 2.0H |



## CTLQ1210LF

Wire-wound Chip Inductors – Ferrite

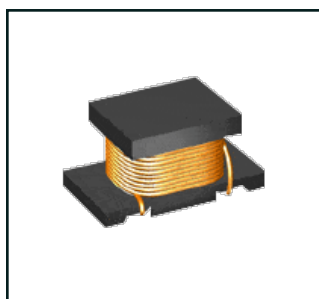
### Description

SMD wire-wound chip inductor.

### Application Use

Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

| Inductance                | Ind. Test Freq. | Qmin | SRF            | DCR ( $\Omega$ ) | Current        | Size (mm)          |
|---------------------------|-----------------|------|----------------|------------------|----------------|--------------------|
| 0.15 $\mu$ H ~ 10 $\mu$ H | 1.0MHz          |      | 26MHz ~ 400MHz | 0.028 ~ 0.3      | 450mA ~ 1450mA | 3.2L x 2.5W x 2.0H |



## CTLQ1210NF

Wire-wound Chip Inductors – Ferrite

### Description

SMD wire-wound chip inductor.

### Application Use

Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

| Inductance                 | Ind. Test Freq.                                                     | Qmin | SRF           | DCR ( $\Omega$ ) | Current      | Size (mm)          |
|----------------------------|---------------------------------------------------------------------|------|---------------|------------------|--------------|--------------------|
| 0.10 $\mu$ H ~ 560 $\mu$ H | 0.10 $\mu$ H ~ 390 $\mu$ H @ 1MHz; 470 $\mu$ H ~ 560 $\mu$ H @ 1kHz |      | 5MHz ~ 200MHz | 0.25 ~ 28        | 40mA ~ 700mA | 3.2L x 2.5W x 2.0H |



## CTLQ1812CF

Wire-wound Chip Inductors – Ferrite

### Description

SMD wire-wound chip inductor.

### Application Use

Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

| Inductance                | Ind. Test Freq.                                      | Qmin | SRF           | DCR ( $\Omega$ ) | Current       | Size (mm)          |
|---------------------------|------------------------------------------------------|------|---------------|------------------|---------------|--------------------|
| 1.0 $\mu$ H ~ 470 $\mu$ H | 1.0 $\mu$ H ~ 330 $\mu$ H @ 1MHz; 470 $\mu$ H @ 1kHz |      | 3MHz ~ 100MHz | 0.08 ~ 8.5       | 90mA ~ 1080mA | 4.5L x 3.2W x 2.6H |



## CTLQ1812NF

Wire-wound Chip Inductors – Ferrite

### Description

SMD wire-wound chip inductor.

### Application Use

Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

| Inductance                 | Ind. Test Freq.                                                     | Qmin    | SRF             | DCR ( $\Omega$ ) | Current      | Size (mm)          |
|----------------------------|---------------------------------------------------------------------|---------|-----------------|------------------|--------------|--------------------|
| 1.0 $\mu$ H ~ 2200 $\mu$ H | 1.0 $\mu$ H ~ 390 $\mu$ H @ 1MHz; 470 $\mu$ H ~ 2200 $\mu$ H @ 1kHz | 20 ~ 40 | 1.3MHz ~ 120MHz | 0.20 ~ 50        | 30mA ~ 500mA | 4.5L x 3.2W x 2.6H |



## CTLQ2220CF

Wire-wound Chip Inductors – Ferrite

### Description

SMD wire-wound chip inductor.

### Application Use

Power supplies for OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters.

| Inductance                   | Ind. Test Freq.                                                                                            | Qmin | SRF             | DCR ( $\Omega$ ) | Current      | Size (mm)          |
|------------------------------|------------------------------------------------------------------------------------------------------------|------|-----------------|------------------|--------------|--------------------|
| 0.12 $\mu$ H ~ 10000 $\mu$ H | 0.12 $\mu$ H ~ 68 $\mu$ H @ 1MHz; 100 $\mu$ H ~ 680 $\mu$ H @ 100kHz; 1000 $\mu$ H ~ 10000 $\mu$ H @ 10kHz |      | 0.5MHz ~ 450MHz | 0.098 ~ 140      | 0.05A ~ 6.0A | 5.7L x 5.0W x 4.7H |

**CT1210SF**

Wire-wound Chip Inductors – Ferrite

**Description**

SMD shielded wire-wound chip inductor

**Application Use**

Personal computers, ADSL/VoIP, hard disk drives.

| Inductance                  | Ind. Test Freq.                                                                                                                        | Qmin | SRF             | DCR ( $\Omega$ ) | Current     | Size (mm)          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|------------------|-------------|--------------------|
| 0.27 $\mu$ H ~ 1000 $\mu$ H | 0.12 $\mu$ H ~ 1.2 $\mu$ H @ 2.52MHz; 2.7 $\mu$ H ~ 6.8 $\mu$ H @ 7.96MHz; 10 $\mu$ H ~ 100 $\mu$ H @ 2.52MHz; 1000 $\mu$ H @ 0.796MHz |      | 2.4MHz ~ 310MHz | 0.33 ~ 14        | 5mA ~ 500mA | 3.2L x 2.5W x 2.2H |

**CT1812SF**

Wire-wound Chip Inductors – Ferrite

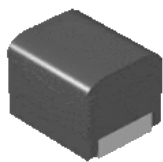
**Description**

SMD shielded wire-wound chip inductor

**Application Use**

Personal computers, ADSL/VoIP, hard disk drives.

| Inductance                 | Ind. Test Freq.                                                                                                | Qmin | SRF             | DCR ( $\Omega$ ) | Current     | Size (mm)          |
|----------------------------|----------------------------------------------------------------------------------------------------------------|------|-----------------|------------------|-------------|--------------------|
| 4.7 $\mu$ H ~ 1000 $\mu$ H | 4.7 $\mu$ H ~ 8.2 $\mu$ H @ 7.96MHz; 10 $\mu$ H ~ 100 $\mu$ H @ 2.52MHz; 120 $\mu$ H ~ 1000 $\mu$ H @ 0.796MHz |      | 1.45MHz ~ 50MHz | 0.82 ~ 29        | 6mA ~ 471mA | 4.5L x 3.2W x 3.2H |

**CTMC1008F**

Molded Wire-wound Chip Inductors

**Description**

SMD ferrite core wire-wound molded chip inductor.

**Application Use**

TV's, disk drives, computer peripherals, telecommunications devices and electronic control boards for automobiles.

| Inductance                 | Ind. Test Freq.                                                                                                                                                             | Qmin    | SRF             | DCR ( $\Omega$ ) | Current      | Size (mm)          |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|------------------|--------------|--------------------|
| 0.01 $\mu$ H ~ 100 $\mu$ H | 0.01 $\mu$ H ~ 0.10 $\mu$ H @ 100MHz; 0.12 $\mu$ H ~ 0.82 $\mu$ H @ 25.2MHz; 1.0 $\mu$ H ~ 8.2 $\mu$ H @ 7.96MHz; 10 $\mu$ H ~ 82 $\mu$ H @ 2.52MHz; 100 $\mu$ H @ 0.796MHz | 15 ~ 30 | 12MHz ~ 2150MHz | 0.26 ~ 21        | 60mA ~ 550mA | 2.5L x 2.0W x 1.8H |



## CTMC1210SF

Molded Wire-wound Chip Inductors

### Description

SMD ferrite core wire-wound molded chip inductor.

### Application Use

TV's, mobile phones, disk drives, computer peripherals, telecommunication devices, electronic control boards for automobiles

| Inductance                 | Ind. Test Freq.                                                                                                                                              | Qmin    | SRF           | DCR ( $\Omega$ ) | Current      | Size (mm)          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------|------------------|--------------|--------------------|
| 0.12 $\mu$ H ~ 150 $\mu$ H | 0.12 $\mu$ H ~ 0.82 $\mu$ H @ 25.2MHz;<br>1.0 $\mu$ H ~ 8.2 $\mu$ H @ 7.96MHz;<br>10 $\mu$ H ~ 82 $\mu$ H @ 2.52MHz;<br>100 $\mu$ H ~ 150 $\mu$ H @ 0.796MHz | 20 ~ 30 | 7MHz ~ 875MHz | 0.22 ~ 15        | 40mA ~ 450mA | 3.2L x 2.5W x 2.2H |



## CTHC1210SF

Molded Wire-wound Chip Inductors

### Description

SMD ferrite core wire-wound molded chip inductor.

### Application Use

TV's, mobile phones, disk drives, computer peripherals, telecommunication devices, electronic control boards for automobiles

| Inductance                | Ind. Test Freq.                                                                                   | Qmin    | SRF           | DCR ( $\Omega$ ) | Current      | Size (mm)          |
|---------------------------|---------------------------------------------------------------------------------------------------|---------|---------------|------------------|--------------|--------------------|
| 1.0 $\mu$ H ~ 100 $\mu$ H | 1.0 $\mu$ H ~ 6.8 $\mu$ H @ 7.96MHz; 10 $\mu$ H ~ 82 $\mu$ H @ 2.52MHz;<br>100 $\mu$ H @ 0.796MHz | 10 ~ 20 | 9MHz ~ 145MHz | 0.156 ~ 10.14    | 75mA ~ 770mA | 3.2L x 2.5W x 2.2H |



## CTMC1812SF

Molded Wire-wound Chip Inductors

### Description

SMD ferrite core wire-wound molded chip inductor.

### Application Use

TV's, mobile phones, disk drives, computer peripherals, telecommunication devices, electronic control boards for automobiles

| Inductance                  | Ind. Test Freq.                                                                                                                                                              | Qmin    | SRF             | DCR ( $\Omega$ ) | Current      | Size (mm)          |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|------------------|--------------|--------------------|
| 0.10 $\mu$ H ~ 1000 $\mu$ H | 0.10 $\mu$ H ~ 0.82 $\mu$ H @ 25.2MHz; 1.0 $\mu$ H ~ 8.2 $\mu$ H @ 7.96MHz; 10 $\mu$ H ~ 82 $\mu$ H @ 2.52MHz; 100 $\mu$ H ~ 820 $\mu$ H @ 0.796MHz; 1000 $\mu$ H @ 0.252MHz | 20 ~ 50 | 2.5MHz ~ 780MHz | 0.18 ~ 40        | 30mA ~ 800mA | 4.5L x 3.2W x 3.2H |



## CTHC1812SF

Molded Wire-wound Chip Inductors

### Description

SMD ferrite core wire-wound molded chip inductor.

### Application Use

TV's, mobile phones, disk drives, computer peripherals, telecommunication devices, electronic control boards for automobiles

| Inductance                | Ind. Test Freq.                                                                                                    | Qmin    | SRF             | DCR ( $\Omega$ ) | Current       | Size (mm)          |
|---------------------------|--------------------------------------------------------------------------------------------------------------------|---------|-----------------|------------------|---------------|--------------------|
| 1.0 $\mu$ H ~ 680 $\mu$ H | 1.0 $\mu$ H ~ 8.2 $\mu$ H @ 7.96MHz;<br>10 $\mu$ H ~ 82 $\mu$ H @ 2.52MHz;<br>100 $\mu$ H ~ 680 $\mu$ H @ 0.796MHz | 10 ~ 20 | 2.5MHz ~ 265MHz | 0.11 ~ 24.2      | 65mA ~ 1050mA | 4.5L x 3.2W x 3.2H |



## CTMC2220F

Molded Wire-wound Chip Inductors

### Description

SMD ferrite core wire-wound molded chip inductor.

### Application Use

TV's, disk drives, computer peripherals, telecommunications devices and electronic control boards for automobiles.

| Inductance                   | Ind. Test Freq.                                                   | Qmin    | SRF             | DCR ( $\Omega$ ) | Current     | Size (mm)          |
|------------------------------|-------------------------------------------------------------------|---------|-----------------|------------------|-------------|--------------------|
| 1200 $\mu$ H ~ 10000 $\mu$ H | 1200 $\mu$ H ~ 8200 $\mu$ H @ 0.252MHz; 10000 $\mu$ H @ 0.0796MHz | 15 ~ 20 | 0.5MHz ~ 1.5MHz | 17 ~ 150         | 25mA ~ 75mA | 5.9L x 5.2W x 4.3H |



## CTHC2220F

Molded Wire-wound Chip Inductors

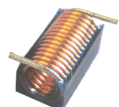
### Description

SMD molded high current inductors

### Application Use

TV's, disk drives, computer peripherals, telecommunication devices and electronic control board for automobiles.

| Inductance                 | Ind. Test Freq.                                                                                                                       | Qmin | SRF | DCR ( $\Omega$ ) | Current       | Size (mm)          |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------|-----|------------------|---------------|--------------------|
| 1.0 $\mu$ H ~ 1000 $\mu$ H | 1.0 $\mu$ H ~ 8.2 $\mu$ H @ 7.96MHz; 10 $\mu$ H ~ 82 $\mu$ H @ 2.52MHz; 100 $\mu$ H ~ 820 $\mu$ H @ 0.796MHz; 1000 $\mu$ H @ 0.252MHz |      |     | 0.03 ~ 15        | 85mA ~ 1800mA | 5.6L x 5.0W x 4.0H |



## CT132SMF

Air Core Inductors

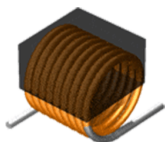
### Description

SMD air core inductor

### Application Use

Pagers, cordless phones, high frequency communication products, intercom, CATV

| Inductance   | Ind. Test Freq. | Qmin | SRF             | DCR ( $\Omega$ ) | Current   | Size (mm)          |
|--------------|-----------------|------|-----------------|------------------|-----------|--------------------|
| 90nH ~ 538nH | 50MHz           | 100  | 0.4GHz ~ 1.0GHz | 8.2 ~ 41.6       | 2A ~ 3.5A | 9.0L x 4.4W x 4.6H |



## CT1812SMSF

Air Core Inductors

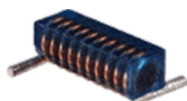
### Description

SMD air core inductor

### Application Use

Pagers, cordless phones, high frequency communication products, intercom, CATV

| Inductance   | Ind. Test Freq. | Qmin | SRF             | DCR ( $\Omega$ ) | Current     | Size (mm)          |
|--------------|-----------------|------|-----------------|------------------|-------------|--------------------|
| 22nH ~ 120nH | 150MHz          | 100  | 1.1GHz ~ 3.2GHz | 4.4 ~ 10.7       | 2.2A ~ 3.5A | 4.7L x 3.5W x 3.5H |



## CT2214F & CT4015F

Air Core Inductors

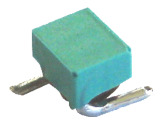
### Description

SMD air core inductor

### Application Use

Designed to operate a wide frequency range application. Also designed to operate in high Q applications.

| Inductance       | Ind. Test Freq. | Qmin | SRF    | DCR ( $\Omega$ ) | Current | Size (mm)                                                                                                                        |
|------------------|-----------------|------|--------|------------------|---------|----------------------------------------------------------------------------------------------------------------------------------|
| 1.65nH ~ 12.55nH | 800MHz          | 100  | 3.0GHz |                  |         | (CT2214F (ref. disty as: 1.65nH ~ 5.45nH)):2.2L x 1.4W x 1.4H Size (CT4015F (ref. disty as: 5.6nH ~ 12.55nH)):4.0L x 1.5W x 1.5H |



## CTAF & CTBF

Air Core Inductors

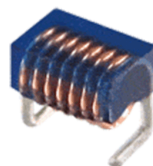
### Description

SMD air core inductor

### Application Use

Designed to operate a wide frequency range application. Also designed to operate in high Q applications.

| Inductance   | Ind. Test Freq. | Qmin      | SRF              | DCR ( $\Omega$ ) | Current | Size (mm)                                                  |
|--------------|-----------------|-----------|------------------|------------------|---------|------------------------------------------------------------|
| 2.5nH ~ 43nH | 150MHz          | 102 ~ 145 | 1.2GHz ~ 12.5GHz |                  |         | (CTAF 3.68L x 3.05W x 3.18H<br>CTBF 6.86L x 3.05W x 3.18H) |



## CTAC0805F

Air Core Inductors

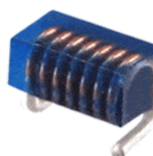
### Description

Description: SMD air core inductor

### Application Use

Applications: Pagers, cordless phones, high frequency communication products, intercom, CATV

| Inductance   | Ind. Test Freq. | Qmin    | SRF               | DCR ( $\Omega$ ) | Current        | Size (mm)           |
|--------------|-----------------|---------|-------------------|------------------|----------------|---------------------|
| 3.9nH ~ 33nH | 300MHz          | 70 ~ 80 | 1600MHz ~ 3000MHz | 2.6 ~ 18.7       | 500mA ~ 1200mA | 2.85L x 1.8W x 2.1H |



## CTAC1008F

Air Core Inductors

### Description

Description: SMD air core inductor

### Application Use

Applications: Pagers, cordless phones, high frequency communication products, intercom, CATV

| Inductance    | Ind. Test Freq. | Qmin    | SRF              | DCR ( $\Omega$ ) | Current        | Size (mm)          |
|---------------|-----------------|---------|------------------|------------------|----------------|--------------------|
| 6.8nH ~ 120nH | 300MHz          | 70 ~ 80 | 950MHz ~ 3000MHz | 4 ~ 63.4         | 320mA ~ 1200mA | 3.2L x 1.9W x 2.2H |

**CT0806SQF**

Air Core Inductors

**Description**

Description: SMD square air core inductor

**Application Use**

Applications: Electronic products, communication equipment, computer devices, TV, DVD, mobile chargers.

| Inductance     | Ind. Test Freq. | Qmin    | SRF           | DCR (Ω)  | Current | Size (mm)                           |
|----------------|-----------------|---------|---------------|----------|---------|-------------------------------------|
| 5.5nH ~ 19.4nH | 400MHz          | 60 ~ 90 | 4GHz ~ 5.2GHz | 3.4 ~ 10 | 2.9A    | 1.295 ~ 2.591L x<br>1.829W x 1.397H |

**CT0807SQF**

Air Core Inductors

**Description**

Description: SMD square air core inductor

**Application Use**

Applications: Electronic products, communication equipment, computer devices, TV, DVD, mobile chargers.

| Inductance   | Ind. Test Freq. | Qmin     | SRF             | DCR (Ω) | Current | Size (mm)                           |
|--------------|-----------------|----------|-----------------|---------|---------|-------------------------------------|
| 6.9nH ~ 22nH | 400MHz          | 90 ~ 100 | 3.5GHz ~ 4.6GHz | 6 ~ 10  | 2.7A    | 1.295 ~ 2.591L x<br>1.829W x 1.524H |

**CT0908SQF**

Air Core Inductors

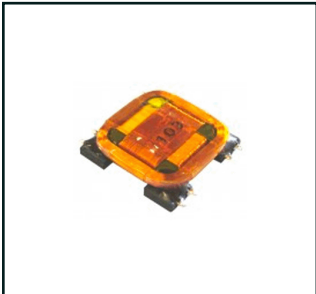
**Description**

Description: SMD square air core inductor

**Application Use**

Applications: Electronic products, communication equipment, computer devices, TV, DVD, mobile chargers.

| Inductance     | Ind. Test Freq. | Qmin     | SRF             | DCR (Ω) | Current | Size (mm)                           |
|----------------|-----------------|----------|-----------------|---------|---------|-------------------------------------|
| 8.1nH ~ 27.3nH | 400MHz          | 90 ~ 130 | 2.5GHz ~ 5.2GHz | 6 ~ 10  | 4.4A    | 1.473 ~ 2.972L x<br>2.134W x 1.829H |



## CTRA1816F

RFID

### Description

Description: SMD RFID antenna coil

### Application Use

Applications: Designed for radio frequency identification systems, keyless go systems (keyless entry), tire pressure monitoring system (TPMS), access control, tracking devices.

| Inductance    | Ind. Test Freq. | Qmin    | SRF | DCR ( $\Omega$ ) | Current | Size (mm)            |
|---------------|-----------------|---------|-----|------------------|---------|----------------------|
| 2.47mH ~ 10mH | 125kHz          | 23 ~ 30 |     |                  |         | 15.5L x 17.5W x 3.8H |



## CTTC1103F

RFID

### Description

Description: SMD RFID transponder coil

### Application Use

Applications: Designed for radio frequency identification systems, tire pressure monitoring system, car remote control key.

| Inductance     | Ind. Test Freq. | Qmin    | SRF              | DCR ( $\Omega$ ) | Current | Size (mm)           |
|----------------|-----------------|---------|------------------|------------------|---------|---------------------|
| 0.25mH ~ 9.5mH | 125kHz          | 30 ~ 40 | 450kHz ~ 2000kHz | 4 ~ 108          |         | 11.8L x 3.3W x 3.0H |



## CTTC4308F

RFID

### Description

Description: SMD RFID transponder coil

### Application Use

Applications: Designed for radio frequency identification systems, tire pressure monitoring system, car remote control key.

| Inductance     | Ind. Test Freq. | Qmin    | SRF              | DCR ( $\Omega$ ) | Current | Size (mm)              |
|----------------|-----------------|---------|------------------|------------------|---------|------------------------|
| 0.40mH ~ 8.1mH | 125kHz          | 15 ~ 17 | 960kHz ~ 4500kHz | 7.4 ~ 123        |         | 11.43L x 3.15W x 2.74H |

