



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ACT/ACM Series Common-Mode Filter Kit

For signal line use in consumer & automotive applications



TDK's ACT/ACM Series Common-mode Filter Kit was designed for consumer and automotive applications requiring signal line noise reduction.



Kit Includes: 170 pieces total—10 of each part number

ACT1210

Automotive Grade—AEC-Q200

- 3.2x3.2mm size (Approx. 44% smaller mounting area and 50% lower volume than existing series)
- Common-mode Inductance Range: 11-100 μ H
- Rated Current: 300-150mA max.
- DC Resistance: 0.4-1.5 Ω max.
- Operating temperature range of -55°C to $+150^{\circ}\text{C}$
- Applications Include: CAN-BUS, FlexRay System

ACT45B

Automotive Grade – AEC-Q200

- 4.5x3.2mm size
- Common-mode Inductance Range: 11-100 μ H
- Rated Current: 0.25-0.15A max.
- DC Resistance: 0.6-2.0 Ω max.
- Operating temperature range of -40°C to $+150^{\circ}\text{C}$
- Applications Include: CAN-BUS, FAXs, Modems, ISDNs, etc...

ACT45R

Automotive Grade—AEC-Q200

- Achieves DCR < 2 Ω @ 125 $^{\circ}\text{C}$ by reducing DC resistance while maintaining a high L-value of 100 μ H
- 4.5x3.2mm size
- Common-mode Inductance Value: 100 μ H
- Rated Current: 0.2A max.
- DC Resistance: 1.5 Ω max.
- Operating temperature range of -40°C to $+150^{\circ}\text{C}$
- Applications Include: FlexRay System

ACM2012

Consumer Grade

Automotive Grade—AEC-Q200

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|---|--|
| <ul style="list-style-type: none"> • Common-mode Impedance Range: 90-200Ω • Operating temperature range of -40°C to $+85^{\circ}\text{C}$ • Rated Current: 0.4-0.22A max. • DC Resistance: 0.19-0.5Ω max. • USB line for PCs, IEEE1394 lines and ETHERNET lines for PCs, STBs, etc., LCD panel LVDS and Panel Link lines | <ul style="list-style-type: none"> • Common-mode Impedance Range: 90-360Ω • Operating temperature range of -40°C to $+105^{\circ}\text{C}$ • Rated Current: 0.4-0.22A max. • DC Resistance: 0.19-0.5Ω max. • Car multimedia interfaces (MOST, USB2.0, IDB-1394, etc...) |
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Digi-Key Part Number	TDK Part Number	Description	Series	Automotive Grade
445-174231-ND	ACT1210-101-2P-TL00	1210, Choke, 100μH, 150mA	ACT1210	Yes
	ACT1210-110-2P-TL00	1210, Choke, 11μH, 300mA	ACT1210	Yes
	ACT1210-220-2P-TL00	1210, Choke, 22μH, 250mA	ACT1210	Yes
	ACT1210-510-2P-TL00	1210, Choke, 51μH, 200mA	ACT1210	Yes
	ACT45B-101-2P-TL003	4532, Choke, 100μH, 150mA	ACT45B	Yes
	ACT45B-110-2P-TL003	4532, Choke, 11μH,250mA	ACT45B	Yes
	ACT45B-220-2P-TL003	4532, Choke, 22μH, 200mA	ACT45B	Yes
	ACT45B-510-2P-TL003	4532, Choke, 51μH, 200mA	ACT45B	Yes
	ACT45R-101-2P-TL001	4532, Choke, 100μH, 200mA	ACT45R	Yes
	ACM2012-900-2P-T001	2012, Choke, 65Ω, 400mA	ACM2012	Yes
	ACM2012-121-2P-T001	2012, Choke, 90Ω, 370mA	ACM2012	Yes
	ACM2012-201-2P-T001	2012, Choke, 150Ω, 350mA	ACM2012	Yes
	ACM2012-361-2P-T001	2012, Choke, 270Ω, 220mA	ACM2012	Yes
	ACM2012-900-2P-T002	2012, Choke, 65Ω, 400mA	ACM2012	No
	ACM2012-121-2P-T002	2012, Choke, 90Ω, 370mA	ACM2012	No
	ACM2012-201-2P-T002	2012, Choke, 150Ω, 350mA	ACM2012	No
	ACM2012-361-2P-T002	2012, Choke, 270Ω, 220mA	ACM2012	No