

# Common Mode Filters

For power line

## ACM series

Type:	ACM4520	[1808 inch]*
	ACM3225	[1210 inch]
	ACM4532	[1812 inch]
	ACM7060	[2824 inch]
	ACM9070	[3628 inch]
	ACM1211	[4844 inch]
	ACM1513	[6052 inch]

\* Dimensions Code [EIA]

Issue date: September 2011

- All specifications are subject to change without notice.
  - Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.
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# Common Mode Filters For Power Line

Conformity to RoHS Directive

## ACM Series ACM4520

### FEATURES

- Several large current products are prepared to correspond to the various applications.
- Low profile and compact shape, it is suited for surface mounting.
- It shows high common mode impedance despite of its compact shape.

### APPLICATIONS

Radiation noise suppression for power line (DVC, DVD cam, DSC, etc.)

### TEMPERATURE RANGES

Operating	-40 to +85°C
Storage(After mount)	-40 to +85°C

### PACKAGING STYLE AND QUANTITIES

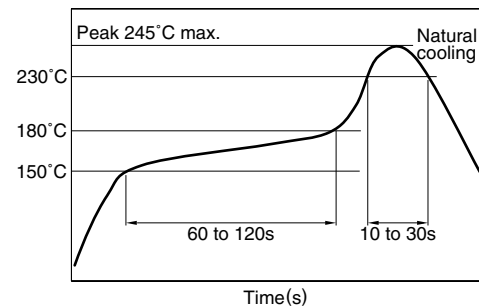
Packaging style	Reel	Quantity
Taping	ø180mm	800 pieces/reel
	ø330mm	2500 pieces/reel

### PRODUCT IDENTIFICATION

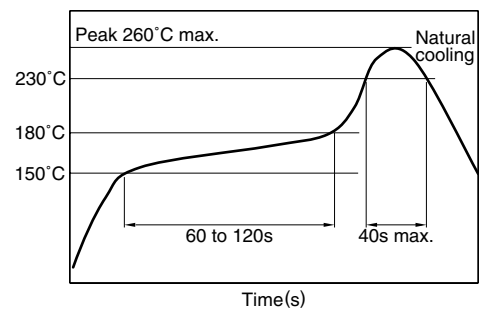
ACM	4520	-	901	-	2P	-	T	-	□□□
(1)	(2)	(3)	(4)	(5)	(6)				

- (1) Series name
- (2) Dimensions W×T  
4520: 4.5×2.0mm
- (3) Impedance [at 100MHz]  
901: 900Ω
- (4) Numbers of lines  
2P: 2-line
- (5) Packaging style  
T: ø180mm reel taping  
TL: ø330mm reel taping
- (6) TDK internal code

### RECOMMENDED SOLDERING CONDITIONS RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



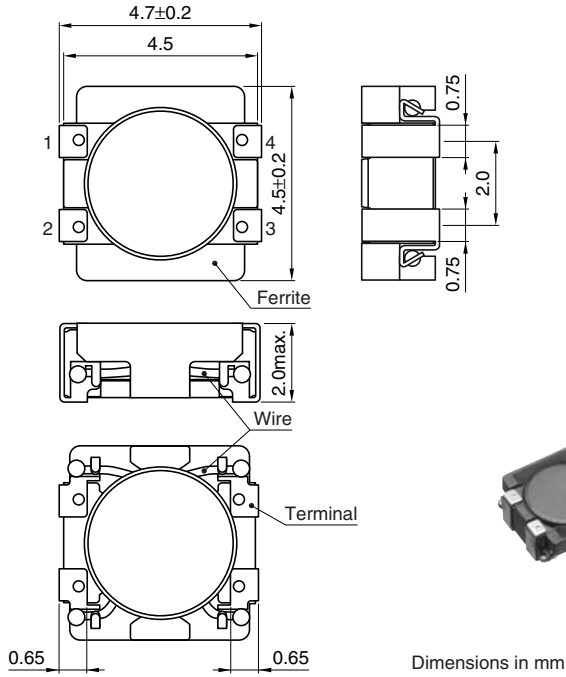
### REFLOW PROFILE FOR SOLDER HEAT RESISTANCE



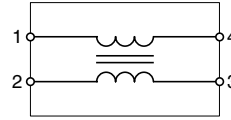
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## SHAPES AND DIMENSIONS

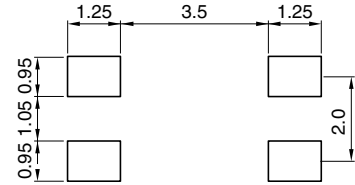


## CIRCUIT DIAGRAM



• No polarity

## RECOMMENDED PC BOARD PATTERN

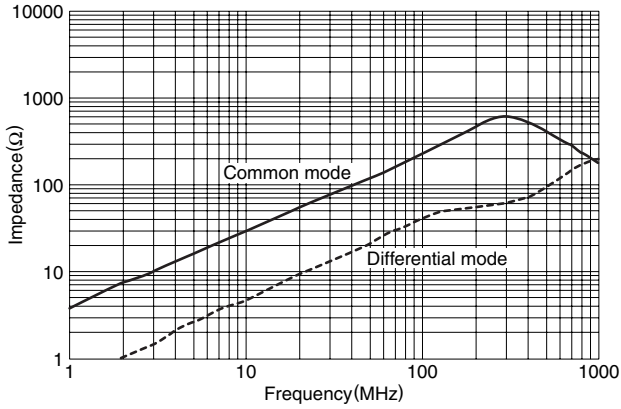


Dimensions in mm

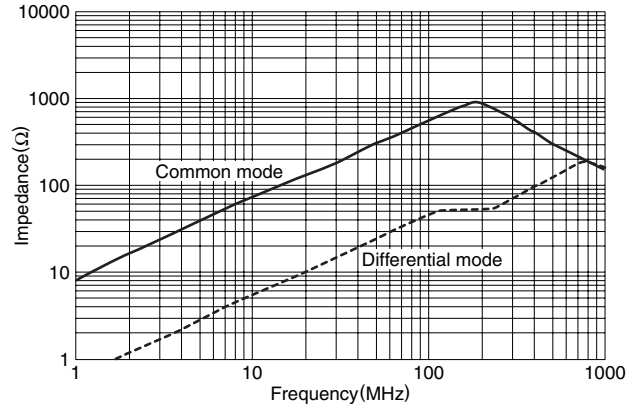
## ELECTRICAL CHARACTERISTICS

Part No.	Common mode impedance (Ω)[at 100MHz]		DC resistance (Ω)max. [1 line]	Rated current Idc (A)max.	Rated voltage Edc (V)max.	Insulation resistance (MΩ)min.
	min.	typ.				
ACM4520-231-2P	180	230	0.05	2.6	50	10
ACM4520-421-2P	300	420	0.055	2.4	50	10
ACM4520-901-2P	650	900	0.06	2.0	50	10
ACM4520-142-2P	1000	1400	0.08	1.5	50	10

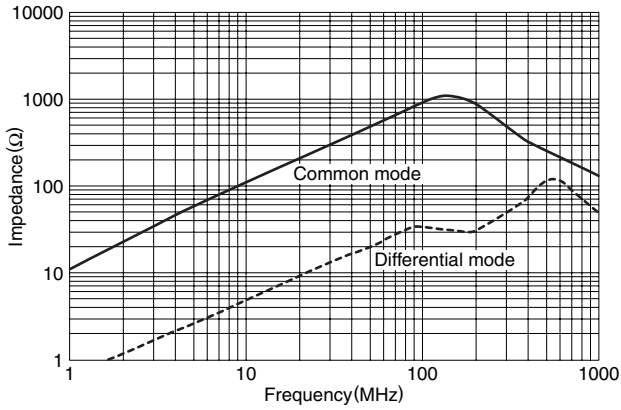
**TYPICAL ELECTRICAL CHARACTERISTICS**  
**IMPEDANCE vs. FREQUENCY CHARACTERISTICS**  
**ACM4520-231-2P**



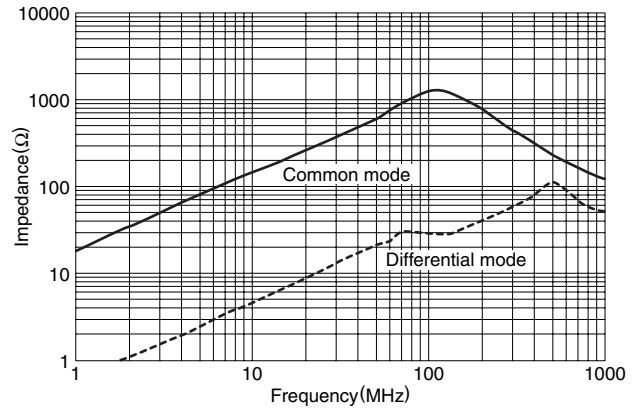
**ACM4520-421-2P**



**ACM4520-901-2P**



**ACM4520-142-2P**



# Common Mode Filters For Power Line

Conformity to RoHS Directive

ACM Series ACM3225, 4532, 7060, 9070, 1211, 1513

## FEATURES

- A chip-type common mode filter for large current applications. Common mode impedance surpasses 300 to 1000Ω at 100MHz. Noise is greatly suppressed.
- Capable of handling the highest current (up to 10A) of any chip-type common mode filter.
- Height and size have been considered, resulting in a compact and light-weight choke coil. Applicable for the miniaturization required to reduce the size and weight of portable equipment.
- The products contain no lead and also support lead-free soldering.
- This product does not contain regulated substances that are slated to be included in RoHS.

## APPLICATIONS

Used for power line noise suppression for any electronic devices  
Used to counter adapter/battery line noise for relatively large electronic devices such as notebook PCs, stand-alone word processors, etc

## TEMPERATURE RANGES

Operating	-25 to +85°C
Storage(After mount)	-25 to +85°C

## PACKAGING STYLE AND QUANTITIES

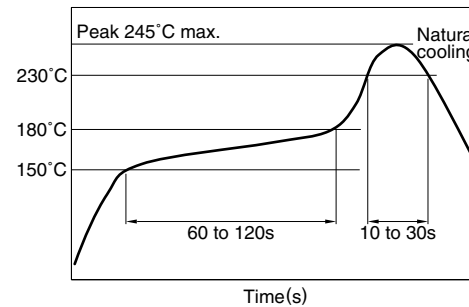
Packaging style	Type	Reel	Quantity
Taping	ACM3225	ø180mm	1000 pieces/reel
		ø330mm	5000 pieces/reel
	ACM4532	ø180mm	500 pieces/reel
		ø330mm	2000 pieces/reel
	ACM7060	ø330mm	1500 pieces/reel
	ACM9070	ø330mm	800 pieces/reel
ACM1211	ø330mm	500 pieces/reel	
ACM1513	ø330mm	500 pieces/reel	

## PRODUCT IDENTIFICATION

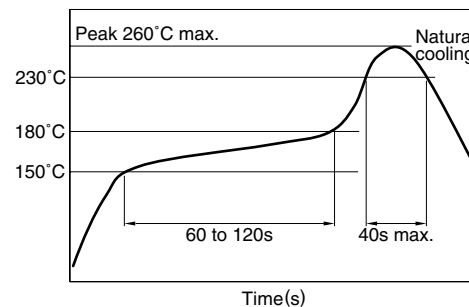
ACM 7060 - 701 - 2PL - TL □□□  
(1) (2) (3) (4) (5) (6)

- (1) Series
- (2) Dimensions L×W  
7060: 7.0×6.0mm
- (3) Impedance[at 100MHz]  
701: 700Ω
- (4) Number of lines  
2PL: 2-line
- (5) Packaging style  
T: ø180mm reel taping  
TL: ø330mm reel taping
- (6) TDK internal code

## RECOMMENDED SOLDERING CONDITIONS RECOMMENDED TEMPERATURE PROFILE FOR LEAD-FREE SOLDER



## REFLOW PROFILE FOR SOLDER HEAT RESISTANCE

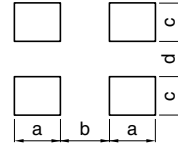
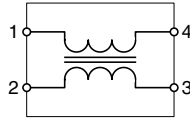
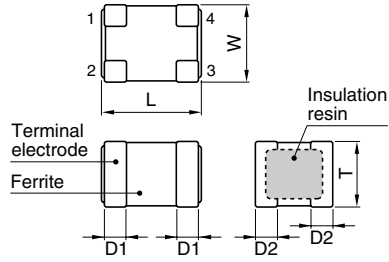


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### SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN(REFLOW SOLDERING)

#### ACM3225 and 4532 TYPES



Dimensions in mm				
Type	a	b	c	d
ACM3225	1.5	1.6	1.4	1.1
ACM4532	1.8	2.3	1.75	1.1

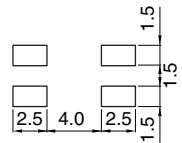
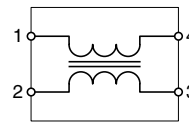
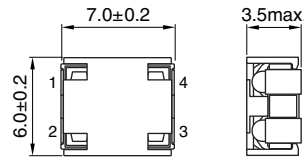
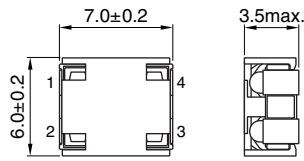
Dimensions in mm					
Type	L	W	T	D1	D2
ACM3225	3.2±0.2	2.5±0.2	2.3 max.	0.7	0.7
ACM4532	4.5±0.2	3.2±0.2	3.0 max.	1	1



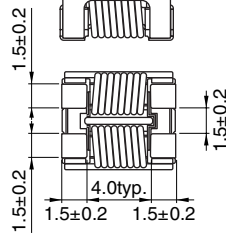
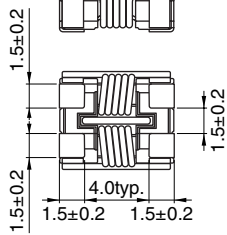
#### ACM7060 TYPE

##### ACM7060-301-2PL-TL01

##### ACM7060-701-2PL-TL01



Dimensions in mm



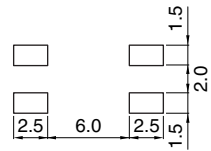
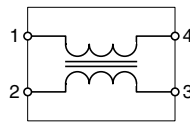
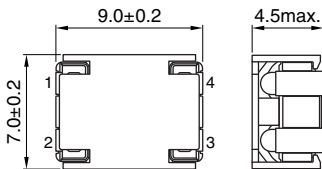
Weight: 0.35g

Dimensions in mm

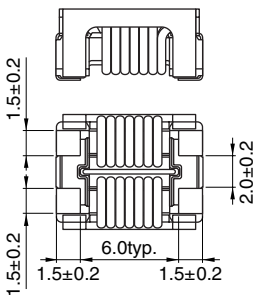


#### ACM9070 TYPE

##### ACM9070-701-2PL-TL01



Dimensions in mm



Weight: 0.82g

Dimensions in mm

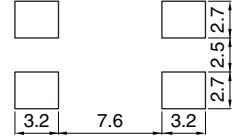
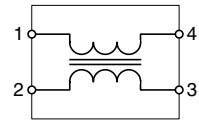
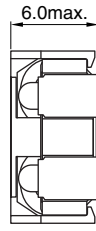
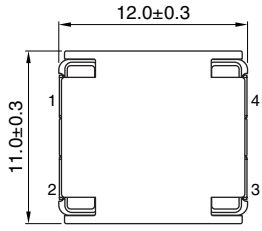
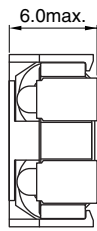
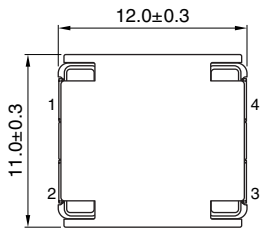


SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN(REFLOW SOLDERING)

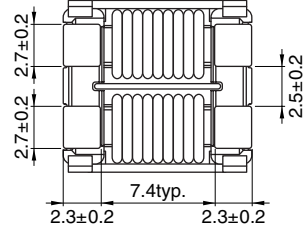
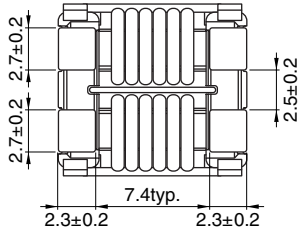
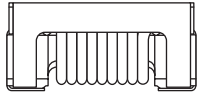
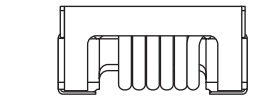
ACM1211 TYPE

ACM1211-701-2PL-TL01

ACM1211-102-2PL-TL01

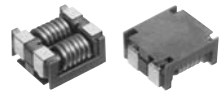


Dimensions in mm

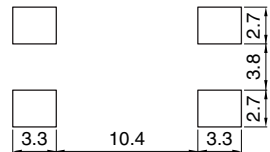
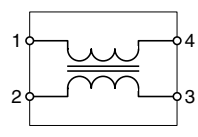
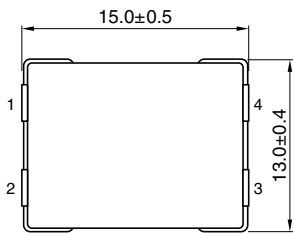


Weight: 2.20g

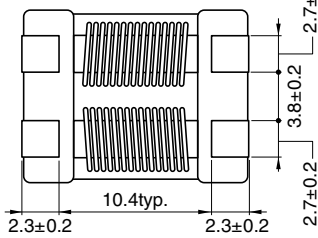
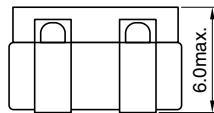
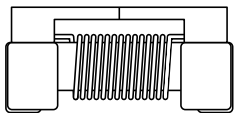
Dimensions in mm



ACM1513 TYPE

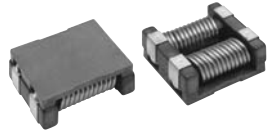


Dimensions in mm



Weight: 3.15g

Dimensions in mm



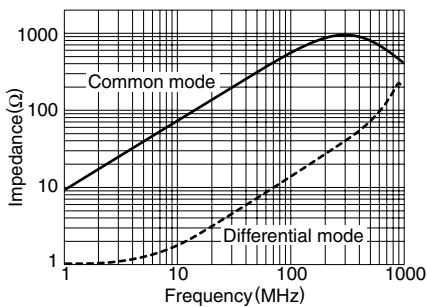
## ELECTRICAL CHARACTERISTICS

Part No.	Impedance ( $\Omega$ )[at 100MHz]		DC resistance ( $m\Omega$ )max.	Rated current Idc(A)max.	Insulation resistance ( $M\Omega$ )min.	Rated voltage Edc(V)max.
	min.	typ.				
ACM3225-601-2P	450	600	200	1.0	10	50
ACM4532-601-2P	450	600	100	1.5	10	50
ACM4532-801-2P	600	800	100	1.0	10	50
ACM7060-301-2PL-TL01	225	300	10	5	10	80
ACM7060-701-2PL-TL01	500	700	15	4	10	80
ACM9070-701-2PL-TL01	500	700	10	5	10	80
ACM1211-701-2PL-TL01	500	700	6	8	10	80
ACM1211-102-2PL-TL01	750	1000	14	6	10	80
ACM1513-551-2PL-TLHF	450	550	4	10	10	80

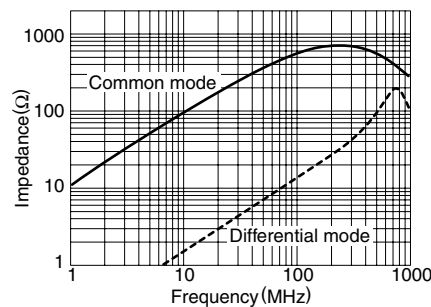
## TYPICAL ELECTRICAL CHARACTERISTICS

### IMPEDANCE vs. FREQUENCY CHARACTERISTICS

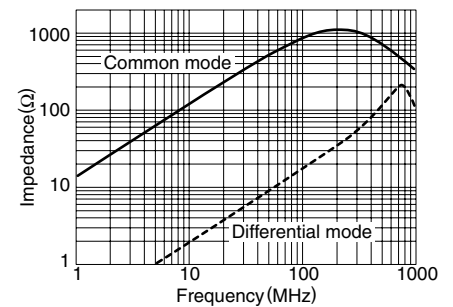
ACM3225-601-2P



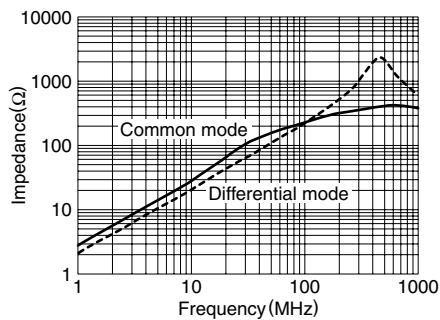
ACM4532-601-2P



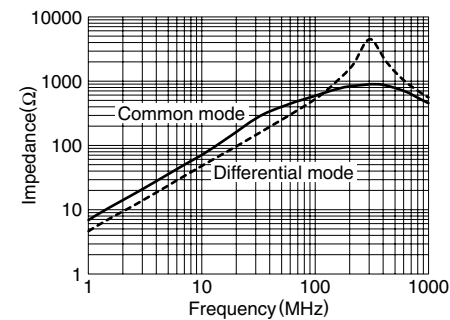
ACM4532-801-2P



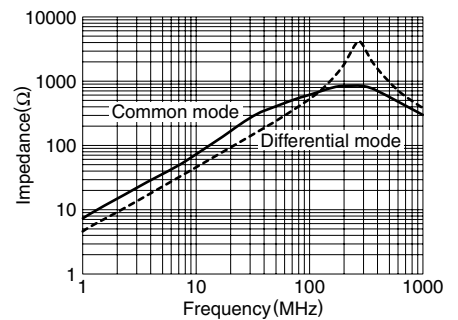
ACM7060-301-2PL-TL01



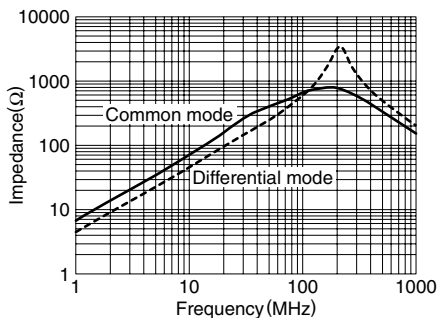
ACM7060-701-2PL-TL01



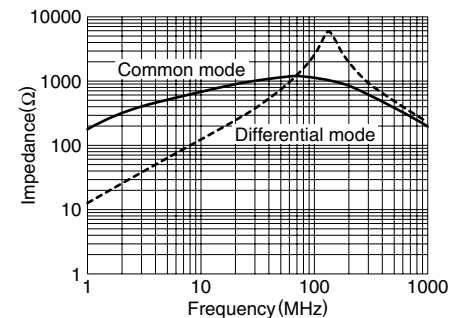
ACM9070-701-2PL-TL01



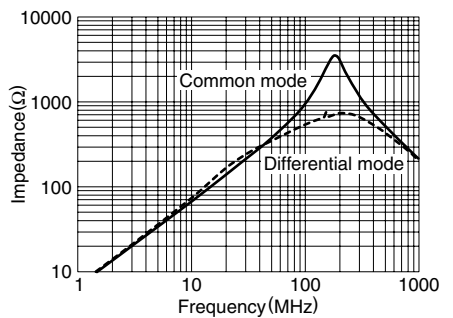
ACM1211-701-2PL-TL01



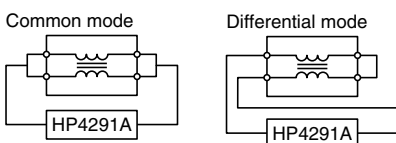
ACM1211-102-2PL-TL01



ACM1513-551-2PL-TLHF



## MEASURING CIRCUITS



• All specifications are subject to change without notice.



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[B82730U3951A020](#) [DKFP-6248-0102](#) [DKFP-6248-02D5](#) [DKFP-6248-D504](#) [7448640395](#) [ELF-14M080E](#) [ELF-18D214](#) [ELF-18D217](#) [ELF-](#)  
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