

FERRITE CHIP EMI FILTERS ACF SERIES

FEATURES

The ACF series is a T-type EMI filter family with 2 beads and 1 capacitor packed into 1 single chip.
High attenuation in a small case size is possible due to a magnetic shield structure.
Even larger attenuation is possible by using a circuit with a stabilized ground.

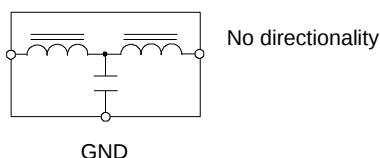
ACF3218 series

18 different suppressors are available, completely covers 11~700MHz. (25dB attenuation)

APPLICATION

EMC control for high speed digital circuit like a clock line and RGB lines.
EMC control for all digital circuit with a stabilized ground.

EQUIVALENT CIRCUIT

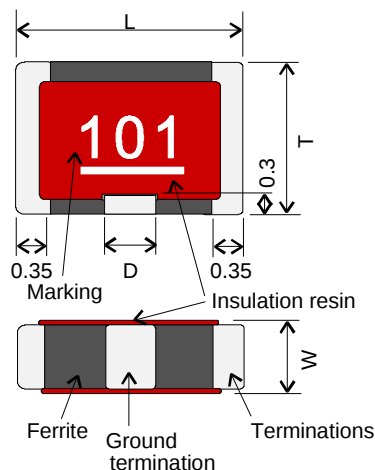


PRODUCT IDENTIFICATION

ACF321825 - 223 - T
(1) (2) (3)

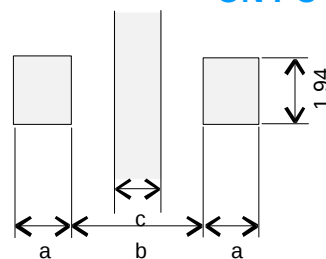
- (1) Series, Case size
- (2) Capacitance 223 : 22000pF
- (3) Packaging style T : Taping Ø180mm reel
TL : Taping Ø330mm reel
B : Bulk

SHAPES AND DIMENSIONS



unit : mm				
Type	L	W	T	D
ACF321825	3.2±0.3	1.8±0.2	2.5±0.25	0.6

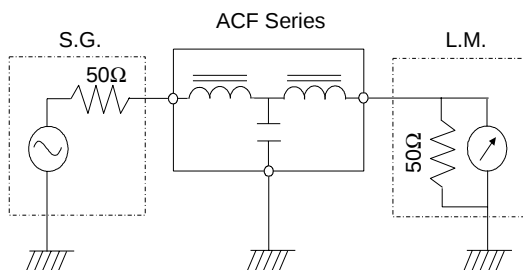
RECOMMENDED PATTERNS ON PC BOARD



unit : mm			
Type	a	b	c
ACF321825	1.4	2.2	0.6

These products are only for reflow soldering.

MEASURING CIRCUIT



ELECTRICAL CHARACTERISTICS (ACF321825 SERIES)

Temp. -40C to +125C DC resistance : 0.15(Ω) max. , Rated voltage : DC 50(V) max. , Rated current : DC 300(mA) max.

Part No.	Marking	Capacitance (pF)	Max. attenuation frequency (MHz)	25dB attenuation frequency range (MHz)
ACF321825-223	223	22000	17	11 ~ 55
ACF321825-103	103	10000	27	17 ~ 60
ACF321825-682	682	6800	37	22 ~ 75
ACF321825-472	472	4700	45	30 ~ 85
ACF321825-332	332	3300	55	37 ~ 90
ACF321825-222	222	2200	65	45 ~ 105
ACF321825-152	152	1500	80	60 ~ 115
ACF321825-102	102	1000	100	80 ~ 140
ACF321825-681	681	680	120	95 ~ 150
ACF321825-471	471	470	145	120 ~ 180
ACF321825-331	331	330	165	130 ~ 210
ACF321825-221	221	220	200	170 ~ 250
ACF321825-151	151	150	240	205 ~ 280
ACF321825-101	101	100	300	265 ~ 340
ACF321825-680	680	68	370	340 ~ 420
ACF321825-470	470	47	450	420 ~ 500
ACF321825-330	330	33	530	500 ~ 600
ACF321825-220	220	22	650	600 ~ 700

Packaging styles are added at the end of a TDK item.
(T:Taping Ø180mm Reel, TL:Taping Ø330mm Reel, B:Bulk)
See product identification above, (3).

INSERTION LOSS vs. FREQUENCY CHARACTERISTICS(ACF321825 SERIES)

