



MINMAX[®]

MKZI10 Series - Railway Note

MKZI10 Series - EN 50155 Note

External Filter meets Interruption, criteria A

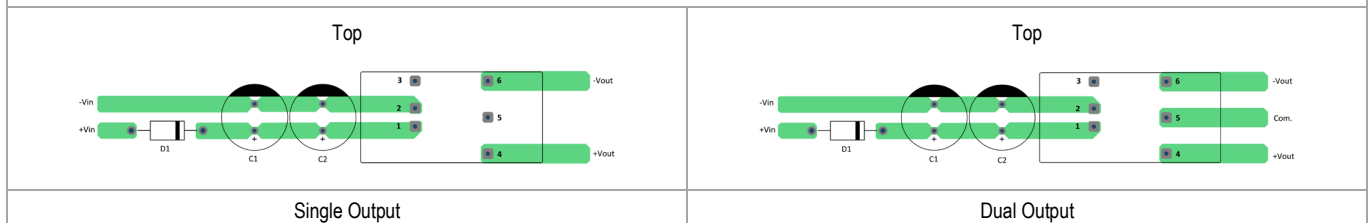


Model	D1	C1
MKZI10-24XXX	1N5408	3300μF/50V TDK B41231 Series

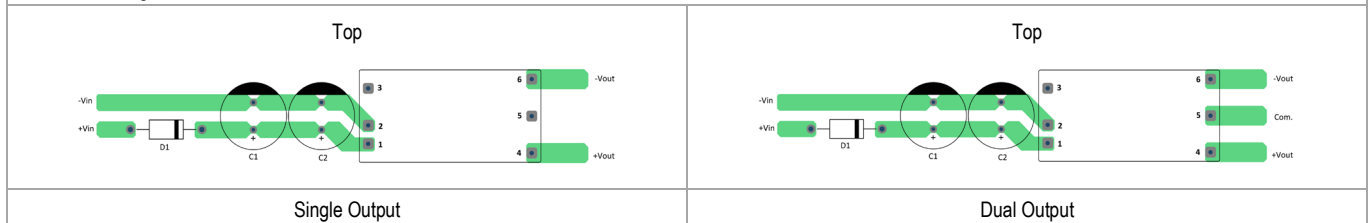
Model	D1	C1, C2
MKZI10-48XXX MKZI10-110XXX	1N5408	390μF/200V CHEMI-CON KXJ Series

Recommended PCB Layout with External Filter

Standard



With "A" Pinning



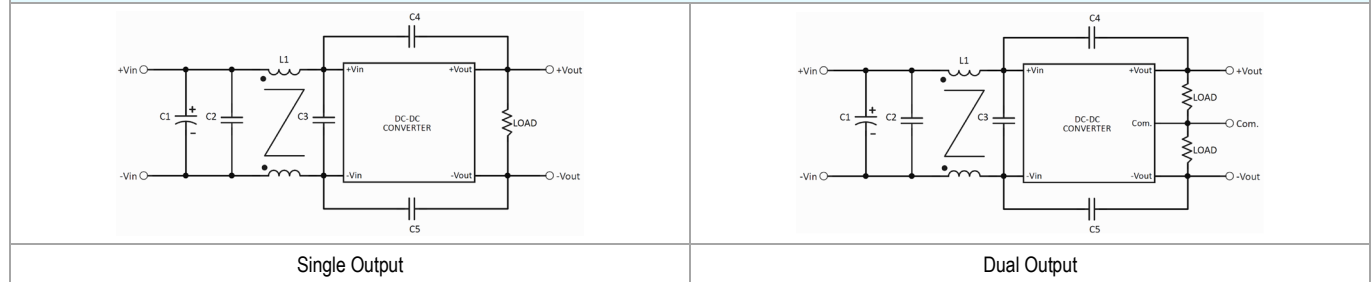


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MKZI10 Series - EMC Note

MKZI10 Series - EMC Note

External Filter meets Radiation (for Surge & EFT Filter) EN 55032/11, class A

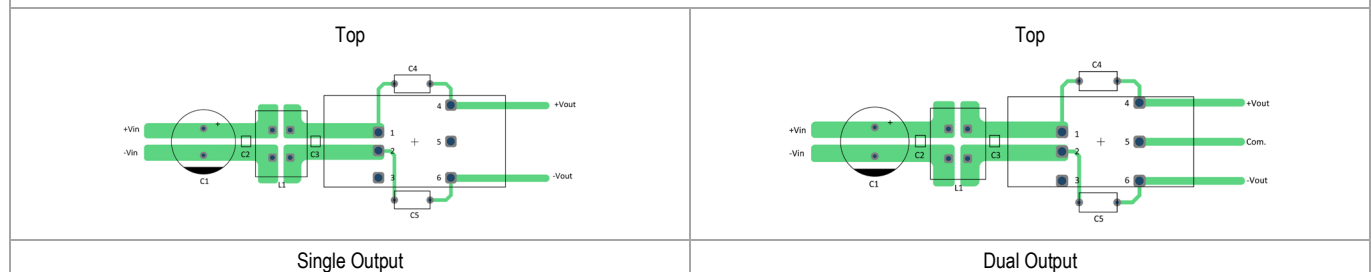


Model	Surge & EFT	Radiation Class A		
	C1	C2, C3, C5	L1	C4
MKZI10-24XXX	390µF/63V CHEMI-CON KY Series	---	1mH/2A 744821201	2200pF/250V/Y1 Cap. YU0AH220M130
MKZI10-110XXX	220µF/250V CHEMI-CON KXG Series	---	5mH/1A 744821150	2200pF/250V/Y1 Cap. YU0AH220M130

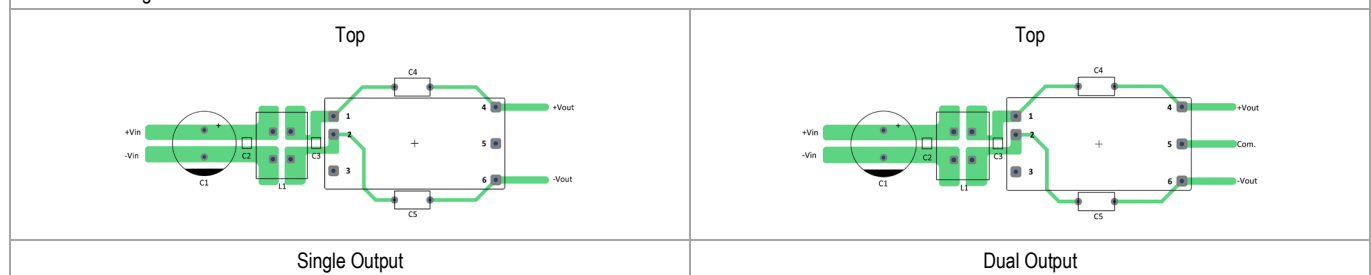
Model	EFT & Surge	Radiation Class A			
	C1	C2, C3	L1	C4	C5
MKZI10-48XXX	330µF/100V CHEMI-CON KY Series	4.7µF/100V 1210 X7S	0.042mH/6.5A 744842742	2200pF/250V/Y1 Cap. YU0AH220M130	2200pF/250V/Y1 Cap. YU0AH220M130

Recommended PCB Layout with External Filter

Standard

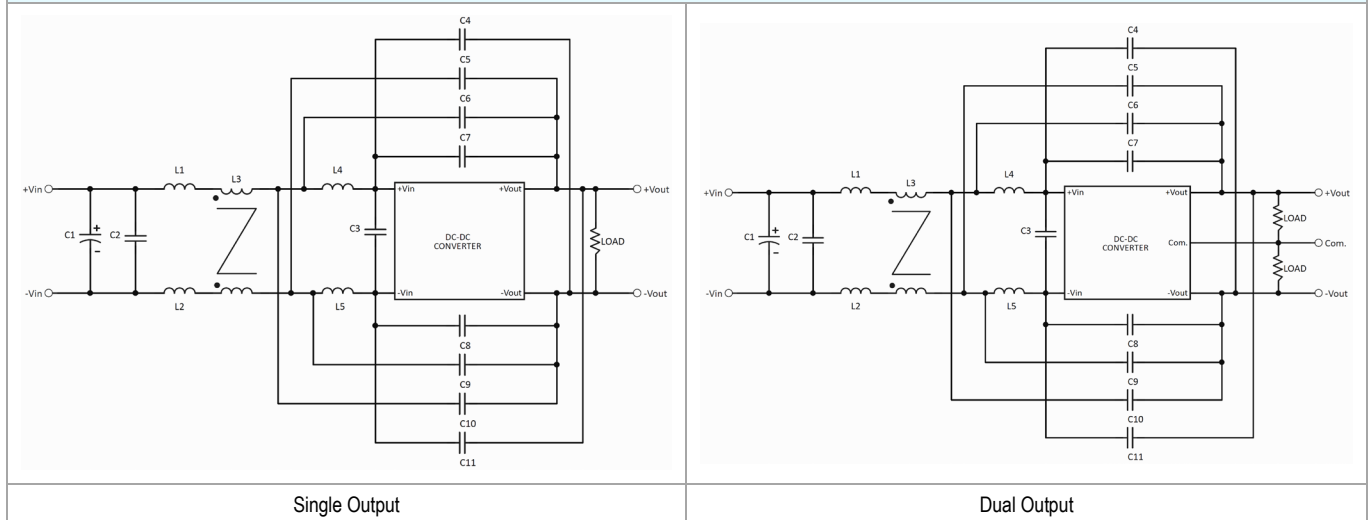


With "A" Pinning



MKZI10 Series - EMC Note

External Filter meets EMI Total solution (for Surge & EFT Filter) EN 55032, class B

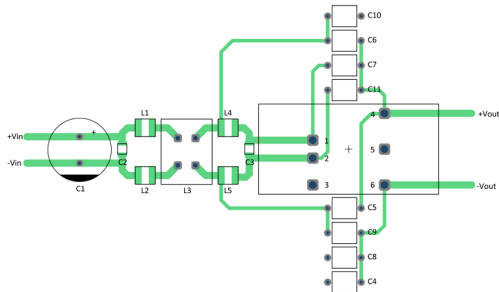
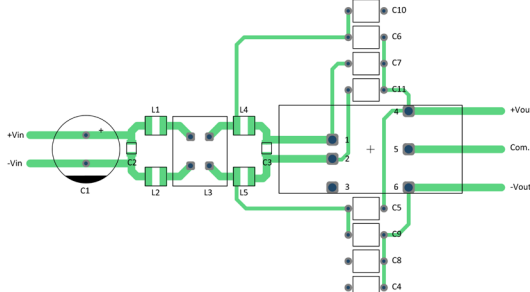
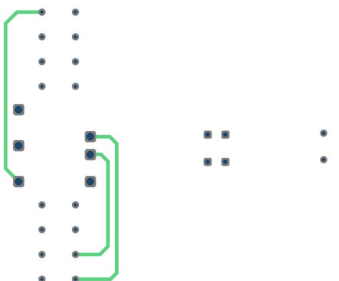
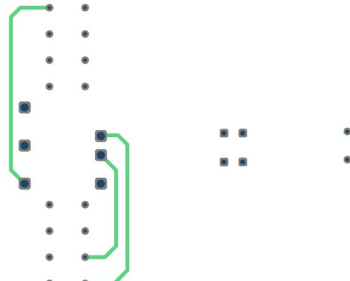
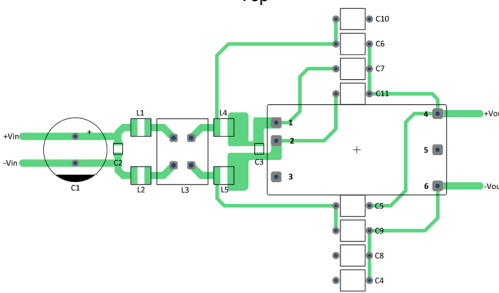
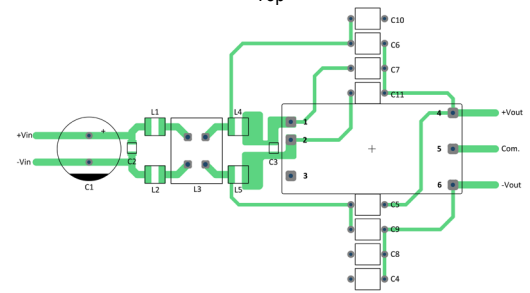
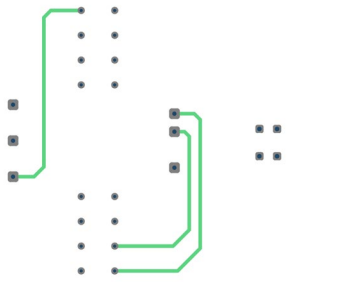
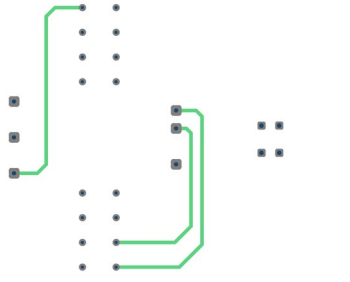


Model	EFT & Surge	Class B			
	C1	C2, C3, C5, C10	L1, L2, L4, L5	L3	C4, C6, C7, C8, C9, C11
MKZI10-24XXX	390 μ F/63V CHEMI-CON KY Series	---	785 Ω /3A 742792515	0.7mH/5A 7448225007	100pF/400Vac/ Y5P Y1 Cap. JD101KY5P

Model	EFT & Surge	Class B					
	C1	C2, C3	L1, L2, L4, L5	L3	C4, C6, C9, C11	C5, C10	C7, C8
MKZI10-48XXX	330 μ F/100V CHEMI-CON KY Series	4.7 μ F/100V 1210 X7S	1000 Ω /1A 742792141	2.2mH/2A 744822222	4700pF/400Vac/ Y5U Y1 Cap. JD472MY5U	---	2200pF/400Vac/ Y5U Y1 Cap. JD222MY5U

Model	EFT & Surge	Class B				
	C1	C2, C3, C6, C9	L1, L2, L4, L5	L3	C4, C7, C8, C11	C5, C10
MKZI10-110XXX	220 μ F/250V CHEMI-CON KXG Series	---	1000 Ω /1A 742792141	3.3mH/1.5A 744822233	2200pF/400Vac/ Y5U Y1 Cap. JD222MY5U	1500pF/400Vac/ Y5U Y1 Cap. JD152MY5U

MKZI10 Series - EMC Note

Recommended PCB Layout with External Filter			
Standard			
Top 		Top 	
Bottom 		Bottom 	
Single Output		Dual Output	
With "A" Pinning			
Top 		Top 	
Bottom 		Bottom 	
Single Output		Dual Output	