Standard Specifications

SPIKEK KILLER™

Type No.	Finished Dimensions [mm]			*2 Core Size [mm]			Effective core	Mean Flux ^{*2} Path Length	*3 Total Flux	Coercive Force *3	Rectangular Ratio *3	Insulating
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	O.D.	I.D.	H.T	O.D	. I.D.	H.T	Ae[mm ²]	Lm [mm]	φc[μWb]min	Hc[A/m]	Br/Bm[%]	Cover
SS7X4X3W	9.1	3.3	4.8	7.5	4.5	3.0	3.38	18.8	3.15		90min	PET case Black
SS10X7X4.5W	11.5	5.8	6.6	10.0	7.0	4.5	5.06	26.7	4.73	22max		
SS14X8X4.5W	15.8	6.8	6.6	14.0	8.0	4.5	10.1	34.6	9.46			

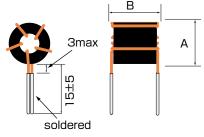
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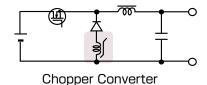
Wired SPIKE KILLER[™] and AMOBEADS[™]

Towns No.	Core No	Current*1	Wire Dia.	N	Flux*2	Dimensions[mm]	
Type No.	Core No.	[A]	[ø mm]	[turn]	[uWb]	A max	B max
AB44DY0305	AB4x2x4.5DY	0.5	0.3	5	13.5	7	9
AB44DY0307	AB4x2x4.5DY	0.5	0.3	7	18.9	7	9
SS07S0309	SS7x4x3W	0.5	0.3	9	28.3	12	8
AB34DY0402	AB3x2x4.5DY	1.0	0.4	2	2.6	6	9
AB34DY0403	AB3x2x4.5DY	1.0	0.4	3	3.9	6	9
AB44DY0402	AB4x2x4.5DY	1.0	0.4	2	5.4	7	9
AB44DY0403	AB4x2x4.5DY	1.0	0.4	3	8.1	7	9
AB44DY0404	AB4x2x4.5DY	1.0	0.4	4	10.8	7	9
SS07S0507	SS7x4x3W	1.5	0.5	7	22.1	12	8
SS07S0510	SS7x4x3W	1.5	0.5	10	31.5	12	8
SS07S0515	SS7x4x3W	1.5	0.5	15	47.3	12	8
SS10S05105	SS10x7x4.5W	1.5	0.5	5	23.7	14	10
SS10S05107	SS10x7x4.5W	1.5	0.5	7	33.1	14	10
SS10S05110	SS10x7x4.5W	1.5	0.5	10	47.3	14	10
SS10S09110	SS10x7x4.5W	5	0.9	10	47.3	15	11
SS14S09108	SS14x8x4.5W	5	0.9	8	75.7	20	11
SS14S09205	SS14x8x4.5W	10	0.9x2	5	47.3	20	11

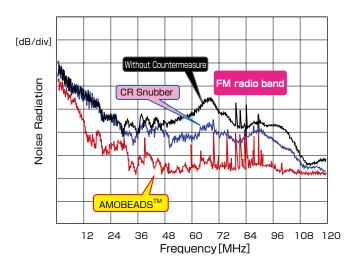


Type of wire: 1UEW

Example of applied circuit and it's characterisitic



Testing Condition of Radiant Noise Measurment				
Input	20[V]			
Output	12[V]/2[A]			
Frequency	90kHz			
Rectifier	FRD			
Detector	Simple Loop Antenna			



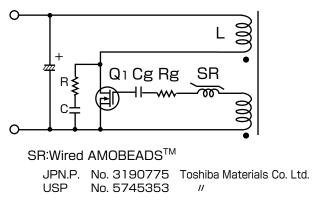
^{*1} Tolerance ± 0.2 [mm] *2 Reference value *3 Measuring condition:100kHz,80A/m (sine wave), R.T.

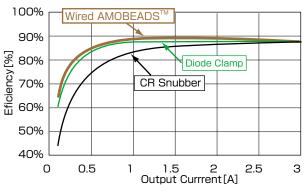
^{*1:} Typical Value, using a cross section of winding wire

^{*2:}Total Flux of core × turn

Examples of Applied Circuits and Effects of Noise Suppression

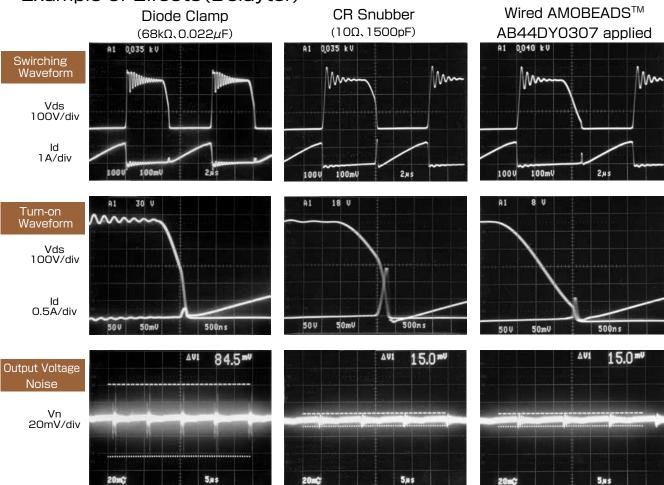
Example Circuit:Self-Exiting Single Flyback(RCC)





Power Supply Efficiency (Vin:DC140V, Vo:24V)

Example of Effects(Delaytor)



Wired AMOBEADSTM delay the turn-on time of the MOSFET when they are inserted between the gate of the MOSFET and drive winding on the primary side of the self-exiting single flyback (RCC). The wired AMOBEADSTM reduce both noise, due to surge current and switching loss, by turning on the switching element at the point when the voltage of the transformer becomes low, utilizing the the LC resonance phenomenon induced by inductance L of the primary winding of the transformer and a snubber capacitor C.

Note: The diode clamp circuit has a tendency to increase the out put noise.

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