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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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Standard Specifications

SPIKEK KILLER®

Type No.	*1 Finished Dimensions [mm]			Cor	e Size [*2 mm]	Effective core cross section	Mean Flux ^{*2} Path Length	*3 Total Flux	Coercive Force * ³	Rectangular Ratio * ³	Insulating
	0.D.	I.D.	H.T	0.D	. I.D.	H.T	Ae[mm ²]	Lm [mm]	$\phi c[\mu Wb]min$		Br/Bm[%]	Cover
SS7X4X3W	9.1	3.3	4.8	7.5	4.5	3.0	3.38	18.8	3.15			
SS10X7X4.5V	/ 11.5	5.8	6.6	10.0	7.0	4.5	5.06	26.7	4.73	22max	90min	PET case Black
SS14X8X4.5V	/ 15.8	6.8	6.6	14.0	8.0	4.5	10.1	34.6	9.46			

*1 Tolerance ±0.2 [mm] *2 Reference value

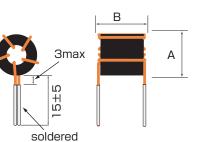
*3 Measuring condition : 100kHz, 80A/m (sine wave), R.T.

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Wired SPIKE KILLER® and AMOBEADS®

Turne Ma	Opena Nie	Current* 1	Wire Dia.	Ν	Flux*2	Dimensions[mm]	
Type No.	Core No.	[A]	[<i>ø</i> 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	З	3.9	6	9
AB44DY0402	AB4x2x4.5DY	1.0	0.4	2	5.4	7	9
AB44DY0403	AB4x2x4.5DY	1.0	0.4	З	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

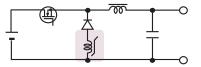


Type of wire : 1UEW

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

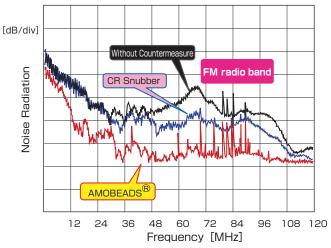
*2:Total Flux of core × turn

Example of applied circuit and it's characterisitic



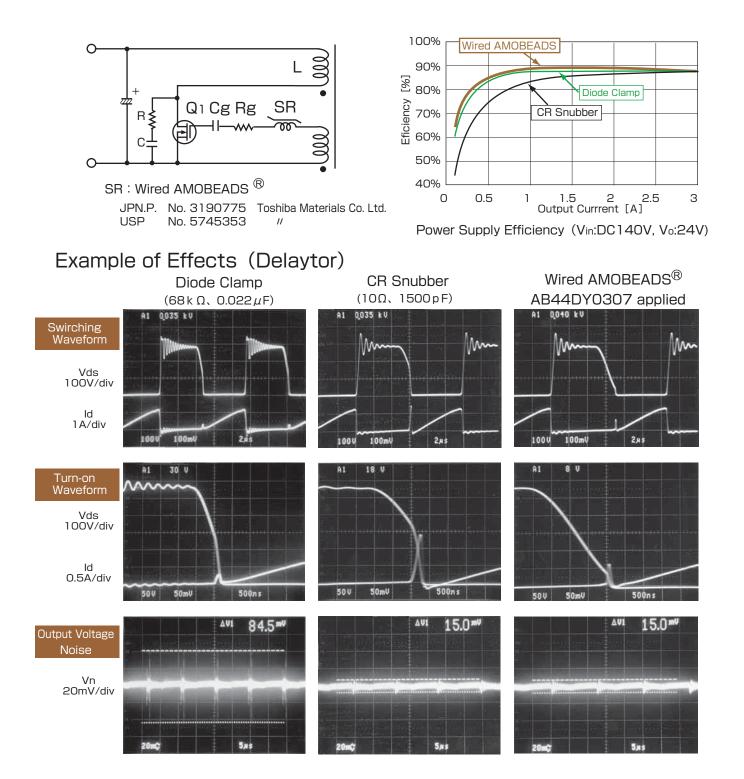
Chopper Converter

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



Examples of Applied Circuits and Effects of Noise Suppression

Example Circuit : Self-Exiting Single Flyback(RCC)



Wired AMOBEADS 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 AMOBEADS 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.