

## Single phase 250Vac 6 to 30A EMC Filters

[https://product.tdk.com/en/products/emc/emc/power-line/tec\\_data/tdk\\_nf\\_rskn.html](https://product.tdk.com/en/products/emc/emc/power-line/tec_data/tdk_nf_rskn.html)

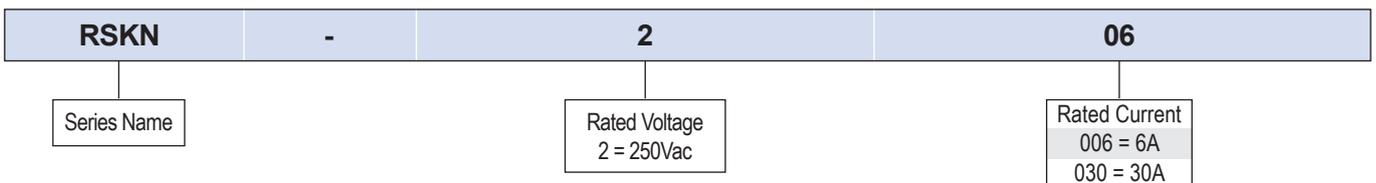
<https://www.emea.lambda.tdk.com/uk/products/r-series>



The RSKN single-phase, wide band, two stage high attenuation EMC filters are enclosed in a low profile metal case and are rated for 250Vac. Four current ratings of 6 to 30A enables the optimum attenuation to match the current rating. The RSKN series uses a nano crystal core for enhanced performance. The connection terminals are integrated into the case and a terminal cover provided for safety protection to avoid lost hardware. The RSKN series is UL certified for a short circuit current rating of 5,000A with the appropriate breaker.

Features	Benefits
• Wide Band, High Attenuation	• Improved Performance
• 6 to 30A Current Ratings	• Optimizes the Attenuation for the Current Rating
• Integrated Terminal Block	• No Lost Hardware
• Safety Certified	• Global Use

Model Selector						
Model	Rated Current (A)	SCCR (kA)	HV Pulse Protection	Maximum DC Resistance (mΩ)	Attenuation frequency range (MHz)	
					Common mode at 30dB	Differential mode at 25dB
RSKN-2006	6	5	Y	300	0.2 to 30	0.4 to 30
RSKN-2010	10	5	Y	100	0.2 to 30	0.5 to 30
RSKN-2020	20	5	Y	20	0.3 to 30	0.4 to 30
RSKN-2030	30	5	Y	10	0.4 to 30	0.4 to 30



Related Single Phase Filter Products									
Type	Current Rating (A)	Series	Options						
			Low Leakage	Faston on terminals	Wire leads	DIN Rail Mount	Fused	Discharge Resistor	Metal case
Board mount line filter, HV Pulse	0.5 - 6	<a href="#">RSAG</a>							
Board mount line filter	0.5 - 6	<a href="#">RSEG</a>							
General purpose with faston terminals	6	<a href="#">RSEC</a>							
General purpose	0.5 - 6	<a href="#">RSEL</a>	Y	Y	Y				Y
HV pulse protection	0.5 - 6	<a href="#">RSAL</a>	Y	Y	Y				
Power Entry Module with line filter	3, 6, 10	<a href="#">RPE</a>	Y					Y	Y
Power Entry Module with line filter, HV Pulse	3, 6, 10	<a href="#">RPA</a>	Y						Y
Multipurpose	3 - 300	<a href="#">RSEN</a>	Y (Up to 30A)			Y (Up to 30A)			
Multipurpose with HV pulse protection	3 - 60	<a href="#">RSAN</a>	Y (Up to 30A)			Y (Up to 30A)			
High attenuation	3 - 300	<a href="#">RSHN</a>	Y (Up to 30A)			Y (Up to 30A)			
High attenuation with pulse protection	3 - 300	<a href="#">RSMN</a>	Y (Up to 30A)			Y (Up to 30A)			
Wide band, high attenuation	6 - 30	<a href="#">RSKN</a>							

\* Separate mounting bracket

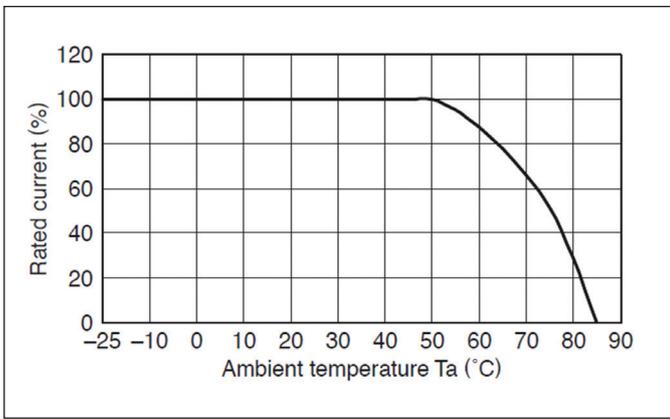
[Click here for TDK-Lambda three phase filters](#)

Specification					
Model		RSKN-2006	RSKN-2010	RSKN-2020	RSKN-2030
<b>Input</b>					
Rated Voltage	Vac/Vdc	250 (Safety certified for AC input only)			
Input Frequency	Hz	47 - 63			
Leakage Current	mA	<1 at 250Vac, 60Hz			
Safety Certifications and Markings	-	UL1283, CSA C22.2 No.8 (cUL), EN60939-1 / -2 (SEMKO), conforms to RoHS Directive			
<b>Environmental</b>					
Operating Temperature	°C	-25 to +85. See derating curves below			
Storage Temperature	°C	-30 to +85			
Humidity (non condensing)	%RH	Operating: 30 - 90, storage: 10 - 95			
Cooling	-	Convection			
Withstand Voltage	Vac	2,500 input to earth			
Isolation Resistance (For 1 minute)	MΩ	>100 at 500Vdc			
Vibration	-	10-55Hz Amplitude 1.5mm, Sweep for 1 min. X, Y and Z directions for 2 hours each			
<b>Other</b>					
Weight (Typ)	g	220	310	530	660
Size (LxWxH)	mm	107 x 47 x 26	117 x 47 x 30	151 x 52 x 35	151 x 67 x 35
Size (LxWxH)	Inches	4.21 x 1.85 x 1.02	4.61 x 1.85 x 1.18	5.94 x 2.05 x 1.38	5.94 x 2.64 x 1.38
Connectors	-	M4 Screw terminals			
MIL-HDBK-217F NOTICE2	Hours	RSKN-2006: 5,137,690, RSKN-2030 : 4,641,6 64			
Warranty	Years	5			

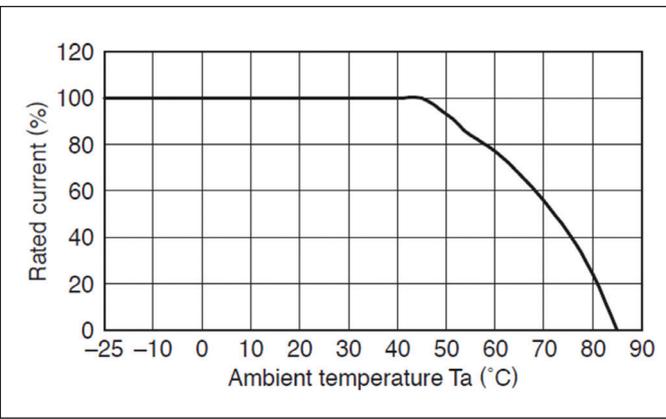
Notes  
See website for detailed specifications, test methods and installation manual [RSKN technical files](#)

**Mechanical Specification**

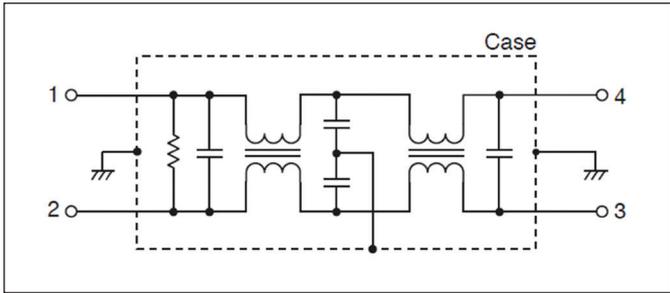
**Derating Curve RSKN-2006/ -2010**



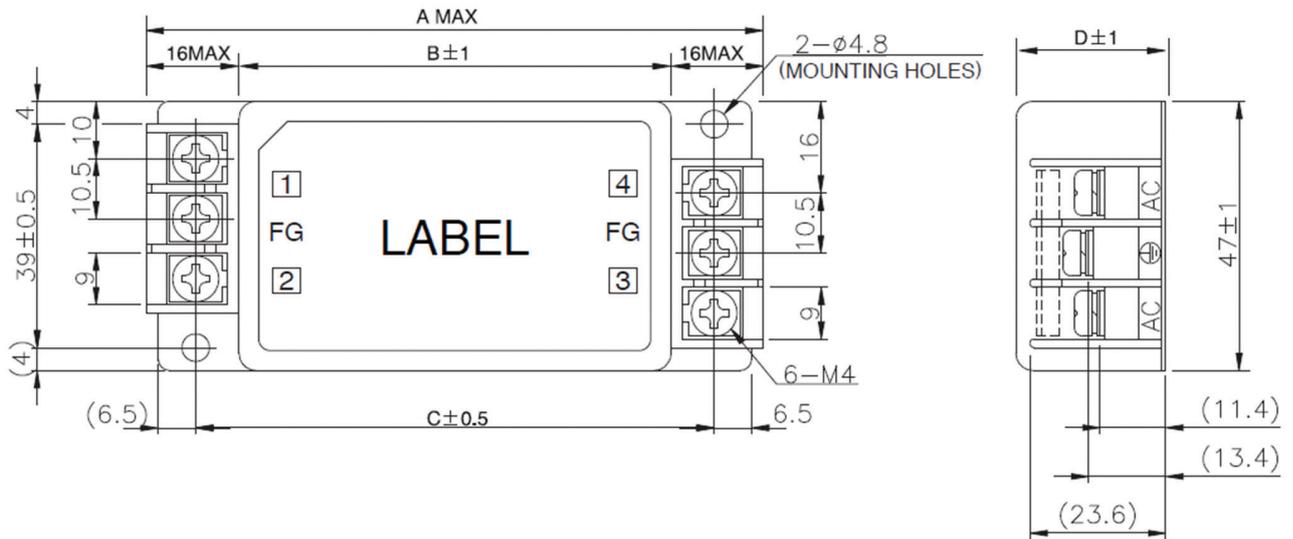
**Derating Curve RSKN-2020/ -2030**



**Schematic**

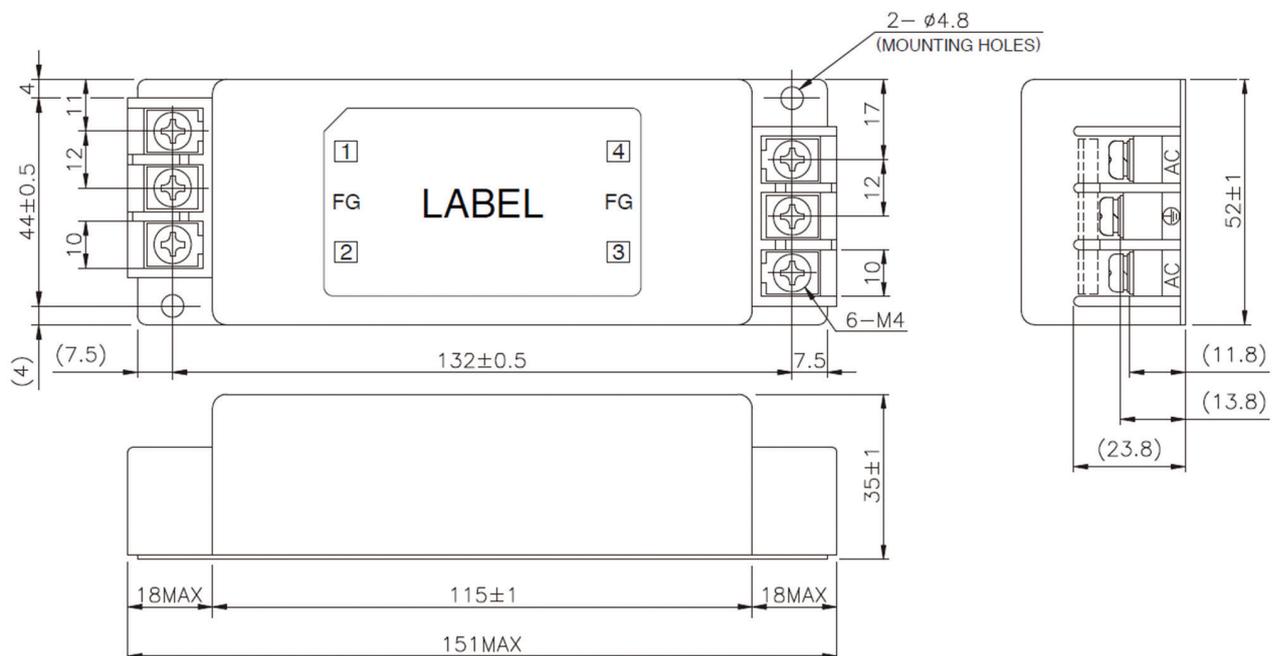


## RSKN-2006/2010 Outline Drawing

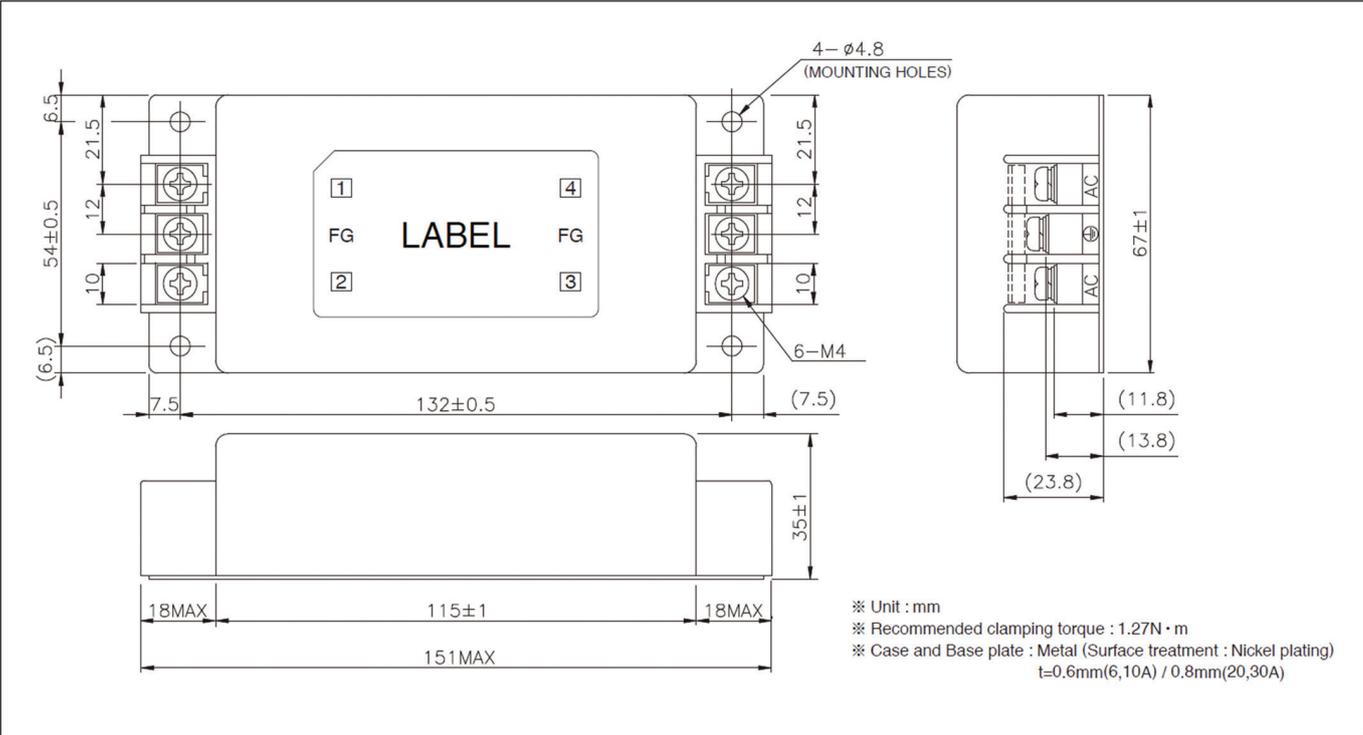


Part No.	A	B	C	D
RSKN-2006	107	75	90	26
RSKN-2010	117	85	100	30

## RSKN-2020 Outline Drawing

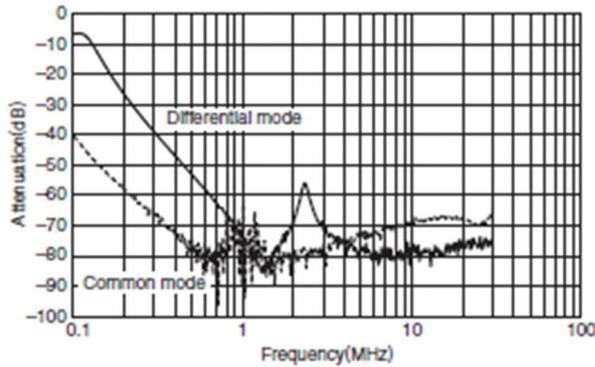


**RSKN-2030 Outline Drawing**

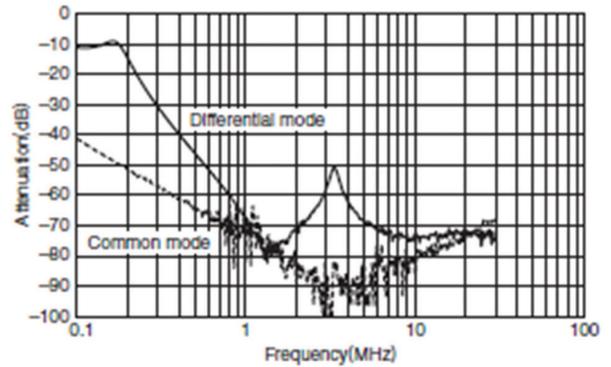


## RSKN Attenuation vs. Frequency

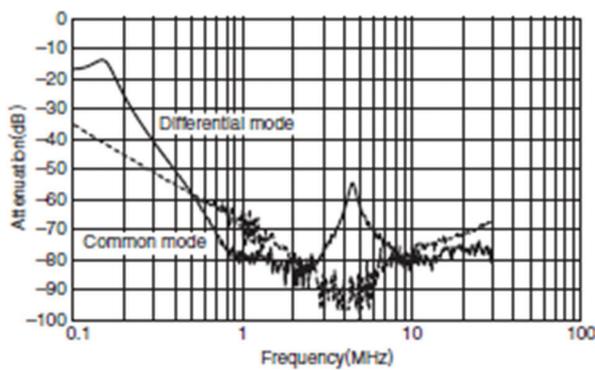
RSKN-2006



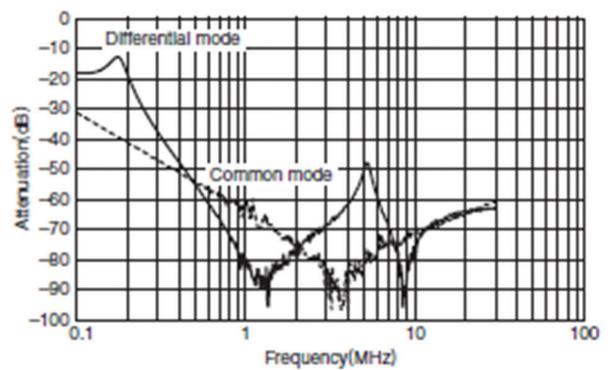
RSKN-2010



RSKN-2020

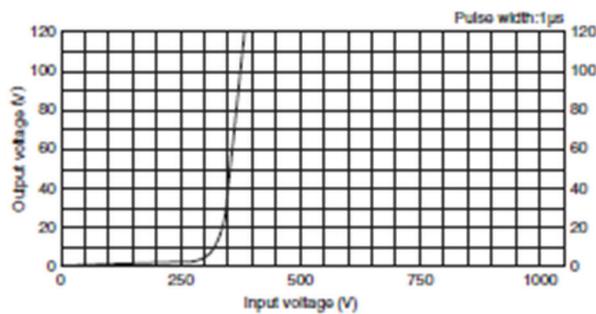


RSKN-2030

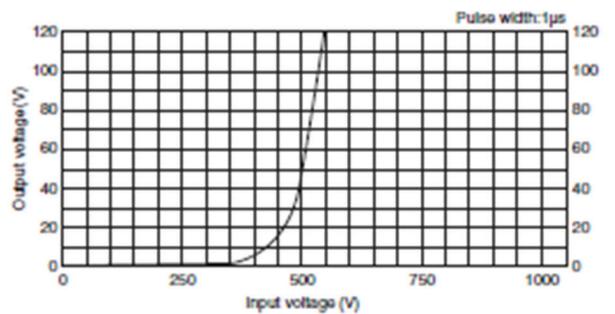


## RSKN Pulse Attenuation Characteristics

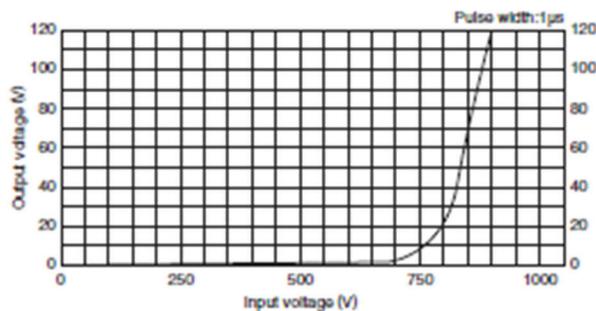
RSKN-2006



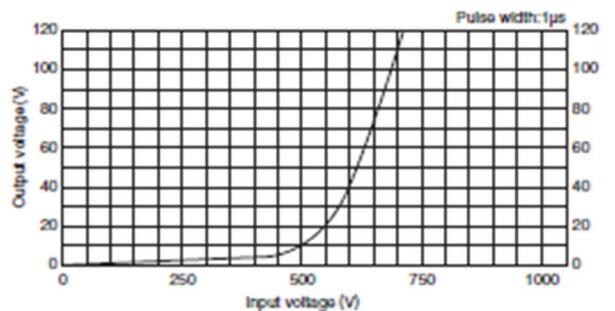
RSKN-2010



RSKN-2020



RSKN-2030





**TDK-Lambda France SAS**

Tel: +33 1 60 12 71 65  
 tf.fr-powersolutions@tdk.com  
 www.emea.lambda.tdk.com/fr



**Italy Sales Office**

Tel: +39 02 61 29 38 63  
 tf.it-powersolutions@tdk.com  
 www.emea.lambda.tdk.com/it



**Netherlands**

tf.nl-powersolutions@tdk.com  
 www.emea.lambda.tdk.com/nl



**TDK-Lambda Germany GmbH**

Tel: +49 7841 666 0  
 tlg.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/de



**Austria Sales Office**

Tel: +43 2256 655 84  
 tlg.at-powersolutions@tdk.com  
 www.emea.lambda.tdk.com/at



**Switzerland Sales Office**

Tel: +41 44 850 53 53  
 tlg.ch-powersolutions@tdk.com  
 www.emea.lambda.tdk.com/ch



**Nordic Sales Office**

Tel: +45 8853 8086  
 tlg.dk-powersolutions@tdk.com  
 www.emea.lambda.tdk.com/dk



**TDK-Lambda UK Ltd.**

Tel: +44 (0) 12 71 85 66 66  
 tlu.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/uk



**TDK-Lambda Ltd.**

Tel: +9 723 902 4333  
 tli.powersolutions@tdk.com  
 www.emea.lambda.tdk.com/il-en



**TDK-Lambda Americas**

Tel: +1 800-LAMBDA-4 or 1-800-526-2324  
 tla.powersolutions@tdk.com  
 www.us.lambda.tdk.com



**TDK Electronics do Brasil Ltda**

Tel: +55 11 3289-9599  
 sales.br@tdk-electronics.tdk.com  
 www.tdk-electronics.tdk.com/en



**TDK-Lambda Corporation**

Tel: +81-3-6778-1113  
 www.jp.lambda.tdk.com



**TDK-Lambda (China) Electronics Co. Ltd.**

Tel: +86 21 6485-0777  
 tlc.powersolutions@tdk.com  
 www.lambda.tdk.com.cn



**TDK-Lambda Singapore Pte Ltd.**

Tel: +65 6251 7211  
 tfs.marketing@tdk.com  
 www.sg.lambda.tdk.com



**TDK India Private Limited, Power Supply Division**

Tel: +91 80 4039-0660  
 mathew.philip@tdk.com  
 www.sg.lambda.tdk.com

