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Jameco Part Number 479605

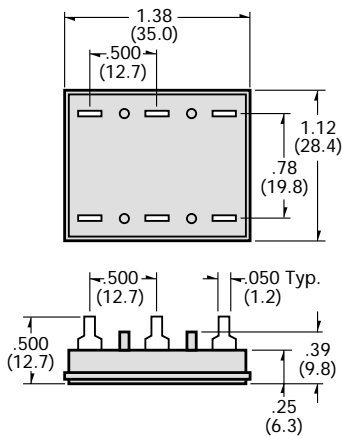
- **Low Profile**
- **Designed for Printed Circuit Board Connections**

Circuit Modules provide ratings up to 42.5 amps in a low profile package designed for printed circuit board connections. Available in three standard bridge circuits and an AC switch version, all models have 2500 Vrms isolation and are UL recognized (file no. E72445).

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

### MECHANICAL DIMENSIONS

All dimensions are in inches (millimeters)



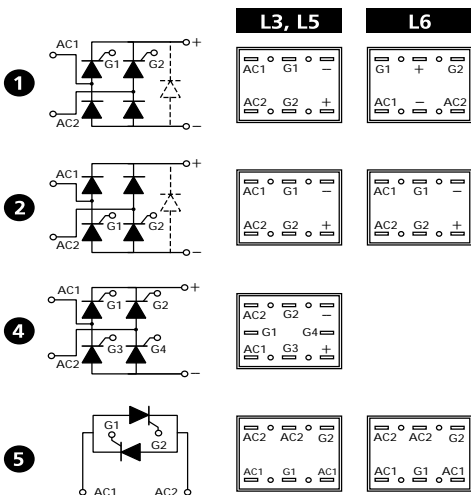
### PART NUMBER IDENTIFICATION

Series Type	Current	Circuit Type	AC Line Voltage	Options
L-Case style	3 - 15 Amps	1 - 5	1 - 120 Vac	F - Free
(Ceramic Base)	5 - 25 Amps	(see schematic diagrams)	2 - 240 Vac	Wheeling Diode
	6 - 42.5 Amps*		3 - 280 Vac	
			4 - 480 Vac	

Example: L512F

\* 42.5 Amp Rating Not Available In Circuit 4

		MODEL NO.	L3	L5	L6
<b>ELECTRICAL SPECIFICATIONS</b>					
$I_D$	Maximum DC Output Current ( $T_c = 85^\circ$ )		15A	25A	42.5A
$V_F$	Maximum Voltage Drop @ Amps Peak	2.2V @ 15A	1.65V @ 25A	1.6V @ 42.5A	
$T_J$	Operating Junction Temperature Range	-40 $^\circ$ to +125 $^\circ$			
di/dt	Critical Rate of Rise of On-State Current @ $T_J=125^\circ$	100A/ $\mu$ s			
dv/dt	Critical Rate of Rise of Off-State Voltage	500V/ $\mu$ s	500V/ $\mu$ s	500V/ $\mu$ s	
$V_{RMS}$	AC Line Input Voltage (Repetitive Peak Reverse Voltage)		120 (400 $V_{RRM}$ ) 240 (600 $V_{RRM}$ ) 280 (800 $V_{RRM}$ ) 480 (1200 $V_{RRM}$ )		
$I_{TSM}$	Maximum Non-Repetitive Surge Current ( $1/2$ Cycle, 60Hz)	225A	300A	600A	
$I^2T$	Maximum $I^2T$ for Fusing ( $t=8.3ms$ ) [ $A^2sec$ ]	210	375	1500	
$I_{GT}$	Maximum Required Gate Current to Trigger @ 25 $^\circ$	60mA	60mA	80mA	
$V_{GT}$	Maximum Required Gate Voltage to Trigger @ 25 $^\circ$	2.5V	2.5V	3.0V	
$P_{G(AV)}$	Average Gate Power	0.5W	0.5W	0.5W	
$V_{GM}$	Maximum Peak Gate Voltage (Reverse)	5.0V	5.0V	5.0V	
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Chip	1.25 $^\circ$ /W	0.90 $^\circ$ /W	0.70 $^\circ$ /W	
$V_{ISOL}$	Isolation Voltage	2500 $V_{RMS}$	2500 $V_{RMS}$	2500 $V_{RMS}$	



### MECHANICAL SPECIFICATIONS

Weight: (typical)

.5 oz. (14.4 g)

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### APPROVALS

UL E72445