

Gas Discharge Tubes



CG Series

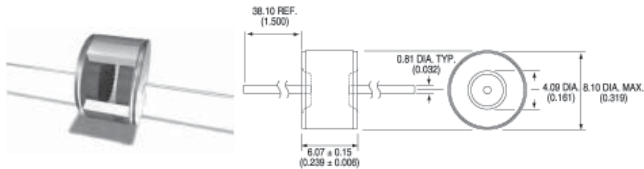
Littelfuse highly reliable CG/CG2 Series GDTs provide a high degree of surge protection in a small size ideal for board level circuit protection.

GDTs function as switches which dissipate a minimum amount of energy and therefore handle currents that far surpass other types of transient voltage protection. Their gas-filled, rugged ceramic metal construction make them well suited to adverse environments.

The CG/CG2 series comes in a variety of forms including surface mount, core, straight and shaped leads, to serve a variety of mounting methods.

The CG Series (75-110V) is ideal for protection of test and communication equipment and other devices in which low voltage limits and extremely low arc voltages are required.

The CG2 Series (145V-1000V) is ideal for protecting equipment where higher voltage limits and holdover voltages are necessary.



Technical Parameters	At Conditions...	CG90L	CG2 230L	
Breakdown Voltage	500V/s			
MIN		72	195	[VDC]
TYP		90	230	[VDC]
MAX		108	265	[VDC]
Breakdown Impulse	100V/us	400	600	[VDC]
Insulating Resistance	50V	1010	-	[Ohm]
	100V		1010	[Ohm]
Rated Current/Voltage	1MHz	1	1	[pF]
Max. Impulse Current		20	20	[kA]
Lifetime	500A (10/1000us)	1000	1000	[breakdowns]
	20kA (8/20us)	5	5	[breakdowns]
Follow On Current		20	20	[A]

Part No.	Ord. No.
S CG90L	9333
S CG2 230L	50454

Polyswitch Resettable Fuses



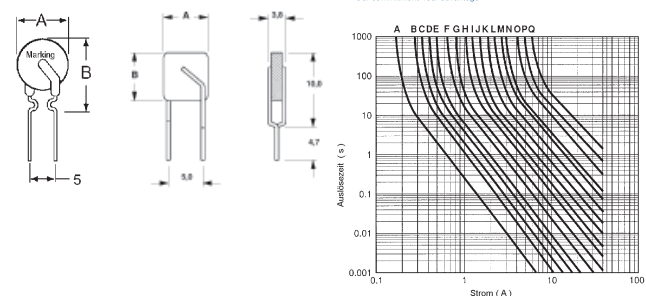
PolySwitch devices are polymeric positive temperature coefficient (PTC) devices, which are used to help protect against harmful overcurrent surges and overtemperature faults. Like traditional fuses, these devices limit the flow of dangerously high current during fault conditions. However, the PolySwitch device resets after the fault is cleared and power to the circuit is removed, thereby reducing warranty, service and repair costs.

Typical applications for PolySwitch devices include computers and peripherals, rechargeable batteries, power supplies, appliances & HVAC systems, automotive electronics, medical and telecommunications equipment.

medical and telecommunications equipment.

RXEF

TR250



Part No.	Rmin [Ω]	Rmax [Ω]	Imin [A]	Imax [A]	Ttrip [s]	A [mm]	B [mm]	Graf
RXEF010	2,50	4,50	0,2	0,10	0,4	7,4	12,7	A
RXEF025	1,25	1,83	0,5	0,25	0,8	7,4	12,7	D
RXEF040	0,55	0,81	0,8	0,40	0,7	7,6	13,5	F

Part No.	Rmin [Ω]	Rmax [Ω]	Imin [A]	Imax [A]	Ttrip [s]	A [mm]	B [mm]	Graf
RXEF065	0,31	0,46	1,3	0,65	0,7	9,7	14,5	H
RXEF135	0,12	0,18	2,7	1,35	2,5	14,5	19,6	L
RXEF185	0,08	0,12	3,7	1,85	5	17,8	22,9	-
TR250-120U	6	10	0,3	0,12	1	6	6	-

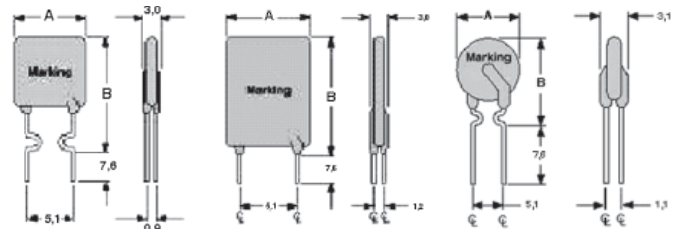
$R_{min}$  - Minimum resistance of device as supplied at 20°C  
 $R_{max}$  - Maximum resistance of device as supplied at 20°C  
 $I_{min}$  - minimum current that will switch the device to high resistance  
 $I_{max}$  - Maximum fault current without damage device at rated voltage.  
 $T_{trip}$  - max. time to switching at  $5xI_{min}$   
 RXE maximal voltage 60V  
 TR250 maximal voltage 60V

Part No.	Ord. No.	Description
S RXEF 010	4781	0,1A/60V
S RXEF 025	4825	0,25A/72V
S RXEF 040	4922	0,4A/72V
S RXEF 065	4826	0,65A/72V
S RXEF 135	4827	1,35A/72V
S RXEF 185	4828	1,85A/72V
S TRF250-120U	4798	0,12A/250V

LP30 - 110,135,185

LP30 - 300

LP60



Part No.	Rmin [Ω]	Rmax [Ω]	Imin [A]	Imax [A]	Ttrip [s]	A [mm]	B [mm]	Graf
LP30-110	0,05	0,10	2,2	1,10	6,6	8,7	14,2	-
LP30-135	0,04	0,08	2,7	1,35	7,3	8,9	13,5	-
LP30-185	0,03	0,06	3,7	1,85	8,7	10,7	15,7	-
LP30-300	0,02	0,05	6,0	3,00	10,8	11,7	17,3	-
LP60-010	2,50	4,50	0,2	0,10	8	7,4	12,7	A
LP60-025	1,00	1,95	0,5	0,25	3,2	7,4	12,7	D
LP60-040	0,52	0,86	0,8	0,40	3,8	7,6	13,5	F
LP60-065	0,27	0,48	1,3	0,65	5,3	9,7	14,5	H

$R_{min}$  - Minimum resistance of device as supplied at 20°C  
 $R_{max}$  - Maximum resistance of device as supplied at 20°C  
 $I_{min}$  - minimum current that will switch the device to high resistance  
 $I_{max}$  - Maximum fault current without damage device at rated voltage.  
 $T_{trip}$  - max. time to switching at  $5xI_{min}$   
 LP30 maximal voltage 30V  
 LP60 maximal voltage 60V

Part No.	Ord. No.	Description
S LP 60-010	44768	0,1A 60V
S LP 60-025	44771	0,25A 60V
S LP 60-040	44773	0,4A 60V
S LP 60-065	44775	0,65A 60V
S LP 30-110	44778	1,1A 30V
S LP 30-135	44779	1,35A 30V
S LP 30-185	44781	1,85A 30V
S LP 30-300	44783	3A 30V