

**Tyco / Electronics**  
**Raychem Circuit Protection**  
 308 Constitution Drive  
 Menlo Park, CA 94025-1164  
 Phone: 800-227-4856  
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**PolySwitch®**  
**PTC Devices**  
 Overcurrent Protection Device

**PRODUCT: LR4-190F**

DOCUMENT: SCD 25564  
 PCN: E24709  
 REV LETTER: B  
 REV DATE: FEBRUARY 17, 2005  
 PAGE NO.: 1 OF 1

**Specification Status: Released**

**Maximum Electrical Rating**  
**Operating Voltage: 15 Vdc MAX**  
**Interrupt Current: 100A MAX**

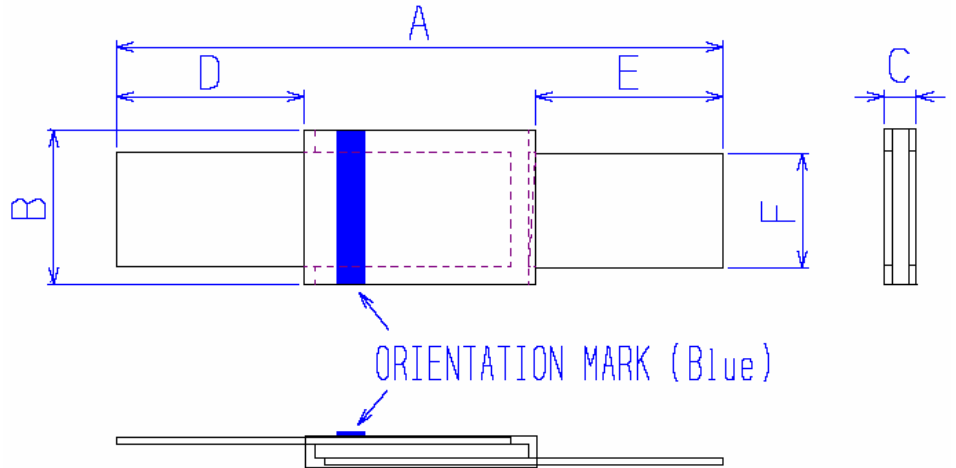
Chip Size: 5 X 7mm

Leads: Nickel 1/4H  
 0.125mm nominal thickness

Solder: Lead-free

Tape: Polyester (White)  
 8mm nominal Width

Marking: (Color: Green)  
 \_\_\_\_\_ Manufacturer's Mark  
 XX E19 \_\_\_\_\_ Part Identification  
 □□□□ \_\_\_\_\_ Lot Identification



**TABLE I. DIMENSIONS:**

	A		B		C		D		E		F	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
mm:	19.9	22.1	4.9	5.5	0.6	1.0	5.5	7.5	5.5	7.5	3.9	4.1
in*:	(0.78)	(0.87)	(0.19)	(0.22)	(0.02)	(0.04)	(0.22)	(0.30)	(0.22)	(0.30)	(0.15)	(0.16)

\*Rounded off approximation

**TABLE II. PERFORMANCE RATINGS: As measured in Mueller Kelvin Clips model BU-75K.**

I HOLD	CURRENT TRIP LIMITS								TIME TO TRIP		REFERENCE RESISTANCE		ONE-HOUR POST-TRIP RESISTANCE		TRIPPED-STATE POWER DISSIPATION	
	AMPS AT 0°C HOLD		AMPS AT 20°C HOLD   TRIP		AMPS AT 60°C HOLD   TRIP		AMPS AT --°C HOLD   TRIP		SECONDS AT 20°C, 9.5A TYP   MAX		OHMS AT 20°C MIN   MAX		OHMS AT 20°C MIN   MAX		WATTS AT 20°C, 15V TYP   MAX	
1.9	2.3	4.6	1.9	3.9	1.4	2.8	--	--	--	5	0.039	0.072	0.039	0.102	--	1.2

Agency Recognitions:  
 Reference Documents:  
 Precedence:  
 Effectivity:  
 CAUTION:

UL, TUV, CSA  
 PS300  
 This specification takes precedence over documents referenced herein.  
 Reference documents shall be the issue in effect on the date of invitation for bid.  
 Operation beyond the rated voltage or current may result in rupture, electrical arcing or flame.

**Materials Information:**

**ROHS Compliant**

Directive 2002/95/EC  
 Compliant

**ELV Compliant**

Directive 2000/53/EC  
 Compliant

**Pb-Free**

