

SMD2920 HF Series Surface Mount PTC Devices

Description

The 2920 series provides surface mount resettable overcurrent protection with holding current from 0.3A to 7.0A. This series is suitable for applications with higher holding current and higher working voltage up to 60V.

Features





- RoHS compliant and lead-free
- Halogen-free
- High voltage
- Low profile
- Fast response to fault current
- Compatible with high temperature solders





Applications

- Power over Ethernet (POE)
- Powered USB for POS and IPC
- Automotive electronics control module protection
- IEEE 1394 port protection
- Low voltage telecom equipment
- Industrial control
- Security systems

Agency Approval and Environmental Compliance

Agency	File Number	Regulation	Standard
	E201431		2011/65/EU
	R50099121		IEC 61249-2-21:2003



Electrical Characteristics

Part Number	I _{hold} (A)	I _{trip} (A)	V _{max} (Vdc)	I _{max} (A)	P _{d typ} (W)	Maximum Time To Trip		Resistance		Agency Approval	
						Current (A)	Time (Sec.)	R _{min} (Ω)	R _{1max} (Ω)		
SMD2920P030TF	0.30	0.60	60	10	1.50	1.50	3.00	1.200	4.800	✓	✓
SMD2920P050TF	0.50	1.00	60	10	1.50	2.50	4.00	0.350	1.400	✓	✓
SMD2920P075TF	0.75	1.50	30	40	1.50	8.00	0.30	0.350	1.000	✓	✓
SMD2920P075TF/60	0.75	1.50	60	10	1.50	8.00	0.30	0.300	0.950	✓	✓
SMD2920P100TF	1.10	2.20	33	40	1.50	8.00	0.50	0.120	0.410	✓	✓
SMD2920P110TF	1.10	2.20	60	20	2.00	8.00	0.50	0.120	0.410	✓	✓
SMD2920P125TF	1.25	2.50	15	40	1.50	8.00	2.00	0.070	0.250	✓	✓
SMD2920P150TF	1.50	3.00	33	40	1.50	8.00	2.00	0.080	0.230	✓	✓
SMD2920P185TF	1.85	3.70	33	40	1.50	8.00	2.50	0.050	0.150	✓	✓
SMD2920P200TF/24	2.00	4.00	24	40	1.50	8.00	5.00	0.050	0.125	✓	✓
SMD2920P250TF	2.50	5.00	15	40	1.50	8.00	5.00	0.035	0.085	✓	✓
SMD2920P260TF	2.60	5.00	6	40	1.50	8.00	10.00	0.025	0.075	✓	✓
SMD2920P260TF/24	2.60	5.00	24	40	1.50	8.00	5.00	0.025	0.075	✓	✓
SMD2920P300TF/15	3.00	5.00	15	40	1.50	8.00	20.00	0.015	0.048	✓	✓
SMD2920P330TF	3.30	5.50	24	40	2.00	8.00	5.00	0.015	0.055	✓	✓
SMD2920P400TF	4.00	8.00	15	40	1.50	20.00	4.00	0.010	0.040	✓	✓

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Part Number	I _{hold} (A)	I _{trip} (A)	V _{max} (Vdc)	I _{max} (A)	P _{d typ} (W)	Maximum Time To Trip		Resistance		Agency Approval	
						Current (A)	Time (Sec.)	R _{min} (Ω)	R _{1max} (Ω)		
SMD2920P500TF	5.00	10.00	12	40	1.50	20.00	5.00	0.005	0.025	✓	✓
SMD2920P500TF/16	5.00	10.00	16	40	2.00	20.00	5.00	0.005	0.025	✓	✓
SMD2920P600TF/12	6.00	12.00	12	50	2.00	30.00	2.00	0.004	0.020	✓	✓
SMD2920P600TF/16	6.00	12.00	16	40	2.20	30.00	2.00	0.004	0.020	—	—
SMD2920P700TF/12	7.00	14.00	12	50	2.00	35.00	2.00	0.0035	0.0180	✓	✓