

Radial Leaded > 16R Series

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RoHS @ 16R Series







Description

The 16R Series Radial Leaded device is designed to provide different products in the general applications with maximum 16 volts and a maximum 100-ampere short circuit rating.

Features

- RoHS compliant
- Fast time-to-trip
- Meets all USB protection requirements
- 100A short circuit rating
- 16V Operating voltages

Agency Approvals

AGENCY	AGENCY FILE NUMBER
c PL ° us	E183209
△ TÜV	R50119318

Applications

- Computers & peripherals WWW.DZSC.COM
- Any USB application
- General Electronics

Electrical Characteristics

Part Number	I hold (A)	I _{trip} (A)	V _{max}	I _{max} (A)	P _d	Maximum Time To Trip		Resistance		Agency Approvals	
Part Number			(Vdc)		typ. (W)	Current (A)	Time (Sec.)	R _{min} (Ω)	R _{1max} (Ω)	c 711 us	△ TÜV
16R250G	2.5	4.7	16	100	1.0	12.5	5.0	0.0220	0.0530	Х	X
16R300G	3.0	5.1	16	100	2.3	15.0	1.0	0.0380	0.0975	Х	X
16R400G	4.0	6.8	16	100	2.4	20.0	1.7	0.0210	0.0600	Х	X
16R500G	5.0	8.5	16	100	2.6	25.0	2.0	0.0150	0.0340	Х	Х
16R600G	6.0	10.2	16	100	2.8	30.0	3.3	0.0100	0.0280	Х	Х
16R700G	7.0	11.9	16	100	3.0	35.0	3.5	0.0077	0.0200	X	Х
16R800G	8.0	13.6	16	100	3.0	40.0	5.0	0.0056	0.0175	X	Χ
16R900G	9.0	15.3	16	100	3.3	45.0	5.5	0.0047	0.0135	X	Χ
16R1000G	10.0	17.0	16	100	3.6	50.0	6.0	0.0040	0.0102	X	Х
16R1100G	11.0	18.7	16	100	3.7	55.0	7.0	0.0037	0.0089	X	X
16R1200G	12.0	20.4	16	100	4.2	60.0	7.5	0.0033	0.0086	Х	X
16R1400G	14.0	23.8	16	100	4.6	70.0	9.0	0.0026	0.0064	X	X

I bold = Hold current: maximum current device will pass without tripping in 23°C still air.

Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.



 I_{trip} = Trip current: minimum current at which the device will trip in 23°C still air.

 V_{max} = Maximum voltage device can withstand without damage at rated current (I_{max})

I ___ = Maximum fault current device can withstand without damage at rated voltage (V____

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R min = Minimum resistance of device in initial (un-soldered) state.

R _{1max} = Maximum resistance of device at 23°C measured one hour after tripping.

Radial Leaded > 16R Series

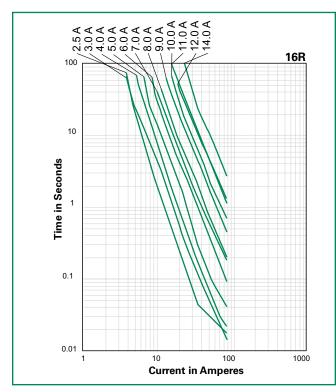


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Temperature Rerating

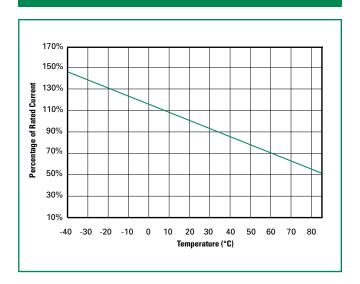
Ambient Operation Temperature									
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
Part Number	Hold Current (A)								
16R250G	3.7	3.3	2.9	2.5	2.2	2.0	1.8	1.6	1.3
16R300G	4.4	4.0	3.5	3.0	2.6	2.4	2.1	1.9	1.6
16R400G	5.9	5.3	4.7	4.0	3.5	3.2	2.9	2.6	2.1
16R500G	7.4	6.6	5.9	5.0	4.4	4.0	3.6	3.2	2.6
16R600G	8.9	8.0	7.1	6.0	5.2	4.8	4.3	3.9	3.2
16R700G	10.4	9.3	8.2	7.0	6.1	5.6	5.0	4.5	3.7
16R800G	11.8	10.6	9.4	8.0	7.0	6.3	5.7	5.1	4.2
16R900G	13.3	12.0	10.6	9.0	7.8	7.1	6.5	5.8	4.7
16R1000G	14.8	13.3	11.8	10.0	8.7	7.9	7.1	6.4	5.3
16R1100G	16.3	14.6	12.9	11.0	9.6	8.7	7.9	7.0	5.8
16R1200G	17.7	15.9	14.1	12.0	10.5	9.5	8.6	7.7	6.3
16R1400G	20.7	18.6	16.5	14.0	12.2	11.1	10.0	9.0	7.4

Average Time Current Curves



The average time current curves and Temperature Rerating curve performance is affected by a number or variables, and these curves provided as guidance only. Customer must verify the performance in their application.

Temperature Rerating Curve



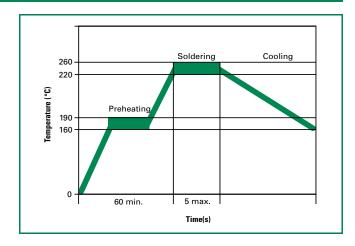


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Soldering Parameters - Wave Soldering

Pre-Heating Zone	Refer to the condition recommended by the flux manufacturer.		
rie-rieating Zone	Max. ramping rate should not exceed 4°C/Sec.		
Soldering Zone	Max. solder temperature should not exceed 260°C		
Cooling Zone	Cooling by natural convection in air.		



Physical Specifications

Lead Material	2.5A: Tin-plated Copper clad Steel
Lead Material	3.0 - 14.0A: Tin-plated Copper
Soldering Characteristics	Solderability per MIL-STD-202, Method 208E
Insulating Material	Cured, flame retardant epoxy polymer meets UL94V-0 requirements.
Device Labeling	Marked with 'LF', voltage, current rating, and date code.

Environmental Specifications

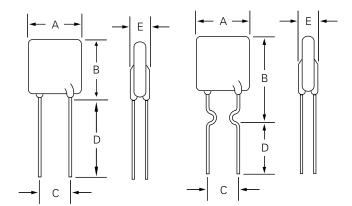
Operating/Storage Temperature	-40°C to +85°C
Maximum Device Surface Temperature in Tripped State	125°C
Passive Aging	+85°C, 1000 hours -/+ 5% typical resistance change
Humidity Aging	+85°C, 85% R.H., 1000 hours -/+ 5% typical resistance change
Thermal Shock	+85°C to -40°C 10 times -/+ 5% typical resistance change
Solvent Resistance	MIL-STD-202, Method 215F No change
Moisture Resistance Level	Level 1, J-STD-020C

Radial Leaded > 16R Series



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Dimensions



Part Marking System

Single Sided Marking

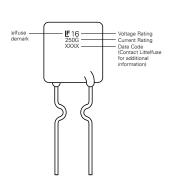


Figure 1

Figure 2

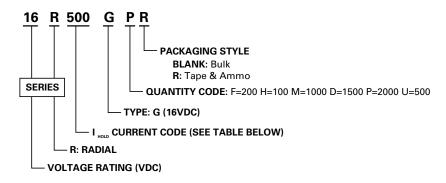
		Α	\	Е	3	C	;	D)	E		Physica	al Chara	cteristics
Part Number	Figure	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Lead	(dia)	- Material
Number		Max.	Max.	Max.	Max.	Тур.	Тур.	Min.	Min.	Max.	Max.	Inches	mm	ivialeriai
16R250G	2	0.35	8.90	0.50	12.80	0.20	5.1	0.13	3.18	0.12	3.00	0.020	0.51	Sn/CuFe
16R300G	1	0.28	7.10	0.43	11.00	0.20	5.1	0.30	7.6	0.12	3.00	0.032	0.81	Sn/Cu
16R400G	1	0.35	8.90	0.50	12.80	0.20	5.1	0.30	7.6	0.12	3.00	0.032	0.81	Sn/Cu
16R500G	1	0.41	10.40	0.56	14.30	0.20	5.1	0.30	7.6	0.12	3.00	0.032	0.81	Sn/Cu
16R600G	1	0.42	10.70	0.67	17.10	0.20	5.1	0.30	7.6	0.12	3.00	0.032	0.81	Sn/Cu
16R700G	1	0.44	11.20	0.78	19.70	0.20	5.1	0.30	7.6	0.12	3.00	0.032	0.81	Sn/Cu
16R800G	1	0.50	12.70	0.82	20.90	0.20	5.1	0.30	7.6	0.12	3.00	0.032	0.81	Sn/Cu
16R900G	1	0.55	14.00	0.85	21.70	0.20	5.1	0.30	7.6	0.12	3.00	0.032	0.81	Sn/Cu
16R1000G	1	0.65	16.50	0.99	25.20	0.20	5.1	0.30	7.6	0.12	3.00	0.032	0.81	Sn/Cu
16R1100G	1	0.69	17.50	1.02	26.00	0.20	5.1	0.30	7.6	0.12	3.00	0.032	0.81	Sn/Cu
16R1200G	1	0.69	17.50	1.10	28.00	0.40	10.2	0.30	7.6	0.14	3.50	0.039	1.00	Sn/Cu
16R1400G	1	0.93	23.50	1.10	27.90	0.40	10.2	0.30	7.6	0.14	3.50	0.039	1.00	Sn/Cu



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Part Ordering Number System



Packaging Options

Part Number	Ordering Number	I _{hold} (A)	I _{hold} Code	Packaging Option	Quantity	Quantity & Packaging Codes
16R250G	16R250GU	2.50	250	Bulk	500	U
1002500	16R250GPR	2.50	250	Tape and Ammo	2000	PR
16R300G	16R300GU	3.00	300	Bulk	500	U
1003000	16R300GPR	3.00	300	Tape and Ammo	2000	PR
16R400G	16R400GU	4.00	400	Bulk	500	U
1004000	16R400GPR	4.00	400	Tape and Ammo	2000	PR
16R500G	16R500GU	5.00	500	Bulk	500	U
TONSOUG	16R500GPR	5.00	500	Tape and Ammo	2000	PR
16R600G	16R600GU	6.00	600	Bulk	500	U
1000000	16R600GDR	0.00	000	Tape and Ammo	1500	DR
16R700G	16R700GF	7.00	700	Bulk	200	F
1007000	16R700GMR	7.00	700	Tape and Ammo	1000	MR
16R800G	16R800GF	8.00	800	Bulk	200	F
TONOUUG	16R800GMR	0.00	800	Tape and Ammo	1000	MR
16R900G	16R900GF	9.00	900	Bulk	200	F
10119000	16R900GMR	9.00	300	Tape and Ammo	1000	MR
16R1000G	16R1000GF	10.00	1000	Bulk	200	F
100 10000	16R1000GMR	10.00	1000	Tape and Ammo	1000	MR
16R1100G	16R1100GF	11.00	1100	Bulk	200	F
IONTIOUG	16R1100GMR	11.00	1100	Tape and Ammo	1000	MR
16R1200G	16R1200GH	12.00	1200	Bulk	100	Н
100 12000	16R1200GMR	12.00	1200	Tape and Ammo	1000	MR
16R1400G	16R1400GH	14.00	1400	Bulk	100	Н

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Tape and Ammo Specifications

Devices taped using EIA468-B/IE286-2 standards. See table below and Figure 1 for details.								
Dimension	EIA Mark	IEC Mark	Dimer					
			Dim. (mm)	Tol. (mm)				
Carrier tape width	w	w	18	-0.5 /+1.0				
Hold down tape width:	W ₄	w _o	11	min.				
Top distance between tape edges	W ₆	W ₂	3	max.				
Sprocket hole position	W ₅	W ₁	9	-0.5 /+0.75				
Sprocket hole diameter*	D _o	D _o	4	-0.32 /+0.2				
Abscissa to plane(straight lead)	н	н	18.5	-/+ 3.0				
Abscissa to plane(kinked lead)	H _o	H _o	16	-/+ 0.5				
Abscissa to top			45.0	max.				
Overall width w/o lead protrusion			56	max.				
Overall width w/ lead protrusion			57	max.				
Lead protrusion	L,	I ₁	1.0	max.				
Protrusion of cut out	L	L	11	max.				
Protrusion beyond hold-down tape	l ₂	l ₂	Not specified					
Sprocket hole pitch	P _o	P _o	25.4	-/+ 0.5				
Device pitch:			25.4					
Pitch tolerance			20 consecutive.	-/+ 1				
Tape thickness	t	t	0.9	max.				
Tape thickness with splice	t,		2.0	max.				
Splice sprocket hole alignment			0	-/+ 0.3				
Body lateral deviation	Δh	Δh	0	-/+ 1.0				
Body tape plane deviation	Δр	Δр	0	-/+ 1.3				
Ordinate to adjacent component lead*	P ₁	P ₁	3.81	-/+ 0.7				
Ordinate to adjacent component lead*			7.62	-/+ 0.7				
Lead spacing:16R250G-16R1100G	F	F	5.08	-/+ 0.8				
Lead spacing:16R1200G-16R1400G	F	F	10.18	-/+ 0.8				

^{*}Differs from EIA specification

Tape and Ammo Diagram

