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Thin Film Flat Chip Resistor

Features

- High operating voltage Umax up to 1000 V
- Low voltage coefficient <1 ppm/V
- Superior moisture resistivity (85°C; 85% RH
- Test proven immunity to humidity, moisture, and sulfur
- Manufactured in accordance with AEC-Q200 compliance

RS PRO High Voltage Thin Film Flat Chip Resistor RSPARHV-A Series



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

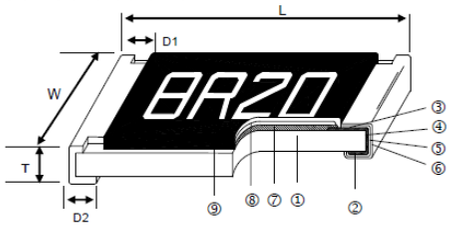
Thin Film Flat Chip Resistor

Product Description

Applications Include:

- Industrial and automotive inverters
- Battery management system
- Testing / Measurement Equipment
- Automatic Equipment Controller

Construction:



①	Alumina Substrate	④	Edge Electrode	⑦	Resistor Layer
②	Bottom Electrode	⑤	Barrier Layer	⑧	Overcoat
③	Top Electrode	⑥	External Electrode	⑨	Marking

Dimensions

Unit: mm

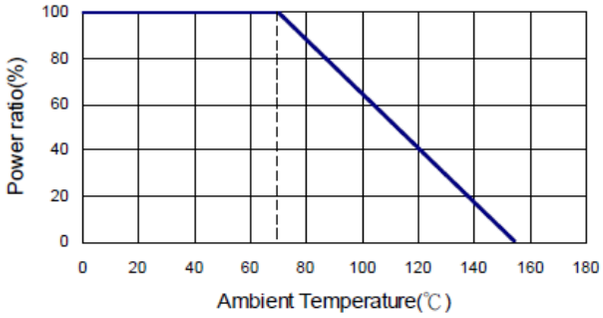
Type	Size (Inch)	L	W	T	D1	D2	Weight (g) (1000pcs)
RSPARHV06	1206	3.05±0.15	1.55±0.15	0.55±0.10	0.42±0.20	0.35±0.25	10.8
RSPARHV13	1210	3.10±0.15	2.40±0.15	0.55±0.10	0.40±0.20	0.55±0.25	15.7

Part Number Make Up

Product Type	Dimensions	Resistance Tolerance	Packaging Code	TCR (PPM/°C)	Power Rating	Resistance	Marking Code
RSPARHV	06: 1206 13: 1210	B: ±0.1%	T: Taping Reel	C: ±25	: Standard	0100: 10Ω 10R2: 10.2Ω 1000: 100Ω 1001: 1KΩ 1004: 1MΩ	A: Automotive Grade

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Derating Curve

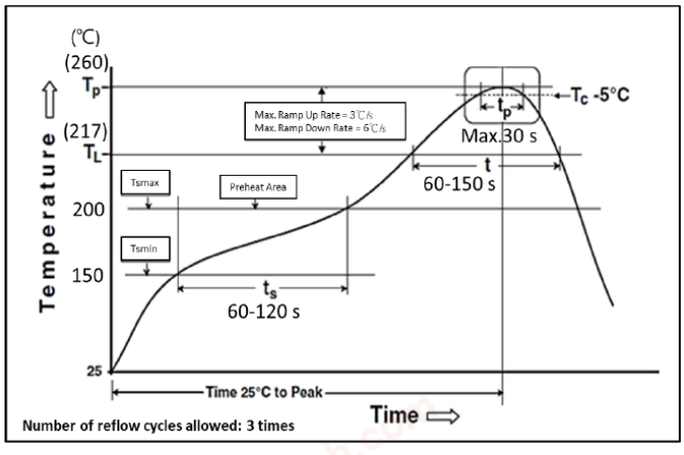


Electrical Specifications

Type	Power Rating at 70°C	Operating Temp. Range	Max Operating Voltage	Max. Overload Voltage	Resistance Range				TCR (PPM/°C)
					±0.02%	±0.05%	±0.1%	±0.5%	
RSPARHV06 (1206)	1/4W	-55 ~ +55°C	700V	1400V	160K~2MΩ				±25 ±50
RSPARHV13 (1210)	1/3W	-55 ~ +55°C	1000V	2000V	121K~3.01MΩ				±25 ±50

Soldering Condition

IPC/JEDEC J-STD-020



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Marking

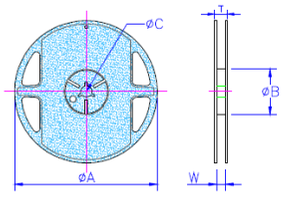
1206/1210 4 digit marking

Example:

Resistance	100Ω	2.2KΩ	10KΩ	49.9KΩ	100KΩ
Marking	1000	2201	1002	4992	1003

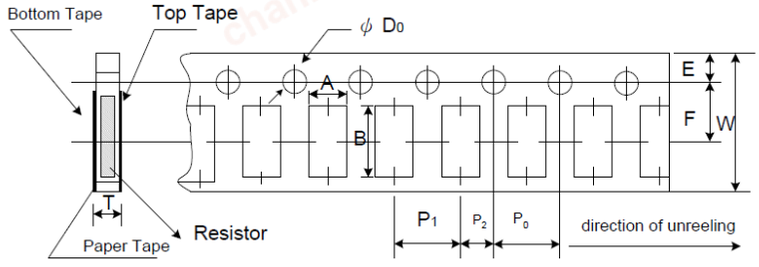
Packaging

Reel Dimension



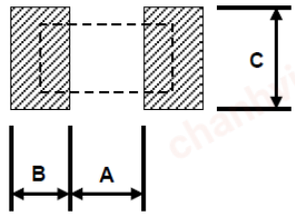
Type	A	B	C	W	T	Paper Tape (EA)
RSPARHV06	178±1.0	60.0±1.0	13.5±0.7	9.5±1.0	11.5±1.0	5,000
RSPARHV13	178±1.0	60.0±1.0	13.5±0.7	9.5±1.0	11.5±1.0	5,000

Paper Tape Specifications



Type	A	B	W	E	F	P0	P1	P2	D0	T
RSPARHV06	2.00±0.05	3.55±0.05	8.00±0.10	1.75±0.05	3.5±0.05	4.00±0.05	4.00±0.10	2.00±0.05	1.55±0.05	0.75±0.05
RSPARHV13	2.75±0.05	3.40±0.05	8.00±0.10	1.75±0.05	3.5±0.05	4.00±0.05	4.00±0.10	2.00±0.05	1.60±0.10	0.75±0.05

Recommended Land Pattern



Type	A	B	C
RSPARHV06	2.00	1.15	1.70±0.2
RSPARHV06	2.00	1.15	2.50±0.2

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Similar Products

RS PRO MPN	RS Part Number		
	SSM	P Part	MPQ
RSPARHV06BTC1004A	2567451	2567451P	2567450
RSPARHV06BTC1204A	2567453	2567453P	2567452
RSPARHV06BTC1504A	2567455	2567455P	2567454
RSPARHV06BTC1603A	2567457	2567457P	2567456
RSPARHV06BTC1803A	2567459	2567459P	2567458
RSPARHV06BTC1804A	2567461	2567461P	2567460
RSPARHV06BTC2004A	2567463	2567463P	2567462
RSPARHV06BTC2203A	2567465	2567465P	2567464
RSPARHV06BTC2703A	2567467	2567467P	2567466
RSPARHV06BTC3303A	2567469	2567469P	2567468
RSPARHV06BTC3903A	2567471	2567471P	2567470
RSPARHV06BTC4703A	2567473	2567473P	2567472
RSPARHV06BTC5603A	2567475	2567475P	2567474
RSPARHV06BTC6803A	2567477	2567477P	2567476
RSPARHV06BTC8203A	2567479	2567479P	2567478
RSPARHV13BTC1004A	2567481	2567481P	2567480
RSPARHV13BTC1204A	2567483	2567483P	2567482
RSPARHV13BTC1303A	2567485	2567485P	2567484
RSPARHV13BTC1503A	2567487	2567487P	2567486
RSPARHV13BTC1504A	2567489	2567489P	2567488
RSPARHV13BTC1803A	2567491	2567491P	2567490
RSPARHV13BTC1804A	2567493	2567493P	2567492
RSPARHV13BTC2203A	2567495	2567495P	2567494
RSPARHV13BTC2204A	2567497	2567497P	2567496
RSPARHV13BTC2703A	2567499	2567499P	2567498
RSPARHV13BTC2704A	2567501	2567501P	2567500
RSPARHV13BTC3004A	2567503	2567503P	2567502
RSPARHV13BTC3303A	2567505	2567505P	2567504
RSPARHV13BTC3903A	2567507	2567507P	2567506
RSPARHV13BTC4703A	2567509	2567509P	2567508
RSPARHV13BTC5603A	2567511	2567511P	2567510
RSPARHV13BTC6803A	2567513	2567513P	2567512
RSPARHV13BTC8203A	2567515	2567515P	2567514