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Internal

Thin Film Chip Resistor

Features

- High precision resistance tolerance: ±0.02%
- Low TCR down to ±5ppm/°C
- Advanced sulfur resistance
- Manufactured in accordance with AEC-Q200 compliance

RS PRO Thin Film Flat Chip Resistor RSPARM-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.

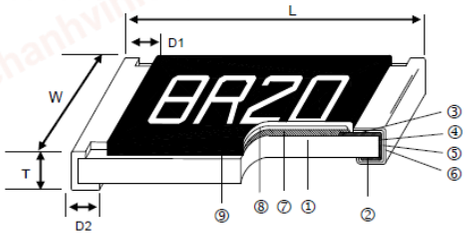
Thin Film Chip Resistor

Product Description

Applications Include:

- Automotive
- Telecommunication
- Industrial Equipment

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

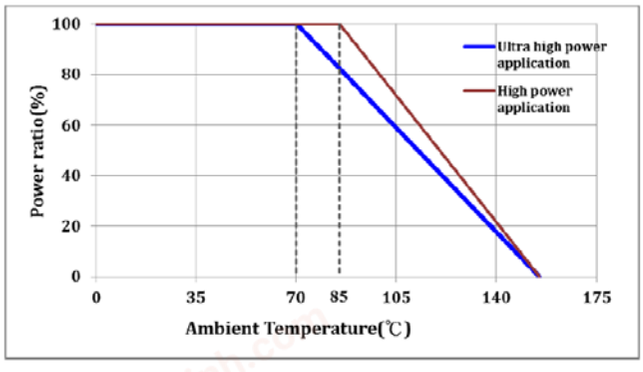
Unit: mm

Type	Size (Inch)	L	W	T	D1	D2	Weight (g) (1000pcs)
RSPARM05	0805	2.00±0.15	1.25±0.15	0.55±0.10	0.30±0.20	0.40±0.20	4.71
RSPARM06	1206	3.05±0.15	1.55±0.15	0.55±0.10	0.42±0.20	0.35±0.25	9.02

Part Number Make Up

Product Type	Dimensions (LxW)	Resistance Tolerance	Packaging Code	TCR (PPM/°C)	Power Rating	Resistance	Marking Code
RSPARM	05: 0805 06: 1206	B: ±0.1%	T: Taping Reel	C: ±25	: Standard	1004: 1MΩ	A: Automotive Grade

Derating Cure



Thin Film Chip Resistor

Electrical Specifications

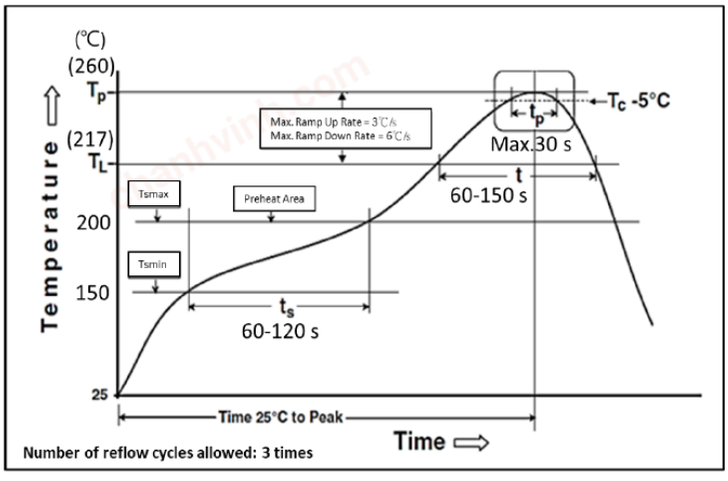
Type	Power Rating			Max Operating Voltage	Max. Overload Voltage	Resistance Range				TCR (PPM/°C)
	Standard	High	Ultra-High			±0.02%	±0.05%	±0.1%	±0.5%	
RSPARM05 (0805)	1/10W	1/8W	1/4W	150V	300V	100Ω - 10.2KΩ				±5
						100Ω - 10.2KΩ	47Ω - 475KΩ			±10
						100Ω - 10.2KΩ	47Ω - 475KΩ	47Ω - 2.7MΩ		±25
						-	-	-	10Ω - 47Ω	±50
RSPARM06 (1206)	1/8W	1/4W	-	200V	400V	100Ω - 33.2KΩ				±5
						100Ω - 33.2KΩ	47Ω - 1MΩ			±10
						100Ω - 33.2KΩ	47Ω - 1MΩ	47Ω - 5.1MΩ		±25
						-	-	-	10Ω - 47Ω	±50

Operating Voltage=√(P*R) or Max. Operating Voltage listed above, whichever is lower.

Overload Voltage=2.5*√(P*R) or Max. Overload Voltage listed above, whichever is lower.

Soldering Condition

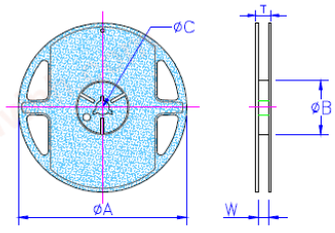
(IPC/JEDEC J-STD-020



Thin Film Chip Resistor

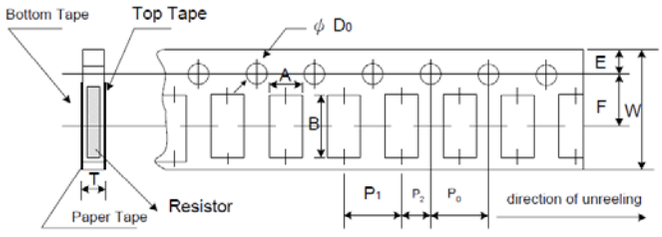
Packaging

Reel Dimension



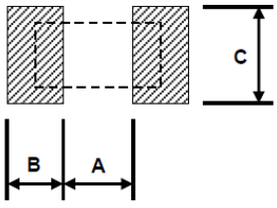
Type	A	B	C	W	T	Paper Tape (EA)
RSPARM05	178±1	60.0±1	13.5±0.7	9.5±1	11.5±1	5,000
RSPARM06	178±1.0	60.0±1	13.5±0.7	9.5±1	11.5±1	5,000

Paper Tape Specifications



Type	A	B	W	E	F	P0	P1	P2	D0	T
RSPARM05	1.6±0.5	2.37±0.05	8.0±0.10	1.75±0.05	3.5±0.05	4.0±0.10	4.0±0.10	2.±0.05	1.55±0.05	0.75±0.05
RSPARM06	2.0±0.05	3.55±0.05	8.0±0.10	1.75±0.05	3.5±0.05	4.0±0.10	4.0±0.10	2.±0.05	1.55±0.05	0.75±0.05

Recommended Land Pattern



Type	A	B	C
RSPARM05	1.20	1.40	1.65±0.2
RSPARM06	2.20	1.40	2.00±0.2

Thin Film Chip Resistor

Similar Products

	RS Article Number		
RS PRO MPN	SSM	P Part	MPQ
RSPARM05BTC1104A	2567517	2567517P	2567516
RSPARM05BTC1204A	2567519	2567519P	2567518
RSPARM05BTC1304A	2567521	2567521P	2567520
RSPARM05BTC1504A	2567523	2567523P	2567522
RSPARM05BTC1604A	2567525	2567525P	2567524
RSPARM05BTC1804A	2567527	2567527P	2567526
RSPARM05BTC2004A	2567529	2567529P	2567528
RSPARM05BTC2204A	2567531	2567531P	2567530
RSPARM05BTC2404A	2567533	2567533P	2567532
RSPARM05BTC2704A	2567535	2567535P	2567534
RSPARM06BTC1604A	2567537	2567537P	2567536
RSPARM06BTC1804A	2567539	2567539P	2567538
RSPARM06BTC2004A	2567541	2567541P	2567540
RSPARM06BTC2204A	2567543	2567543P	2567542
RSPARM06BTC2404A	2567545	2567545P	2567544
RSPARM06BTC2704A	2567547	2567547P	2567546
RSPARM06BTC3004A	2567549	2567549P	2567548
RSPARM06BTC3304A	2567551	2567551P	2567550
RSPARM06BTC3604A	2567553	2567553P	2567552
RSPARM06BTC3904A	2567555	2567555P	2567554
RSPARM06BTC4304A	2567557	2567557P	2567556
RSPARM06BTC4704A	2567559	2567559P	2567558
RSPARM06BTC5104A	2567561	2567561P	2567560