

Carbon Film Resistor – Normal & Miniature Style

Features

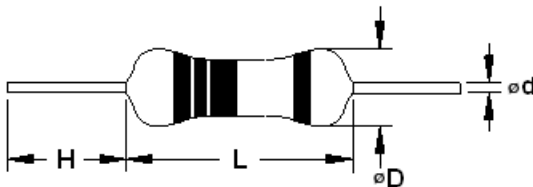
- Low cost
- Excellent long-term stability
- Tolerance: $\pm 2\%$, $\pm 5\%$
- RoHS compliant and halogen free



Mechanical Data

- Exceeds carbon comp MIL-R-11 performance
- Bulk and 52mm tape and reel standard, cut and formed, or radial Panasert/Avisert available upon request

Dimensions (in mm)



Outline	Type		L	ΦD	H	Φd
T-12	RCF08T	RCFS25T	3.4 $\pm$ 0.3	1.9 $\pm$ 0.2	28 $\pm$ 2.0	0.45 $\pm$ 0.05
T-25	RCF25T	RCFS50T	6.3 $\pm$ 0.5	2.4 $\pm$ 0.2	28 $\pm$ 2.0	0.55 $\pm$ 0.05
T-50	RCF50T	RCFS1W	9.0 $\pm$ 0.5	3.3 $\pm$ 0.3	26 $\pm$ 2.0	0.55 $\pm$ 0.05
T-100	RCF1W	RCFS2W	11.5 $\pm$ 1.0	4.5 $\pm$ 0.5	35 $\pm$ 2.0	0.8 $\pm$ 0.05
T-200	RCF2W	RCFS3W	15.5 $\pm$ 1.0	5.0 $\pm$ 0.5	33 $\pm$ 2.0	0.8 $\pm$ 0.05

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RCF & RCFS Series

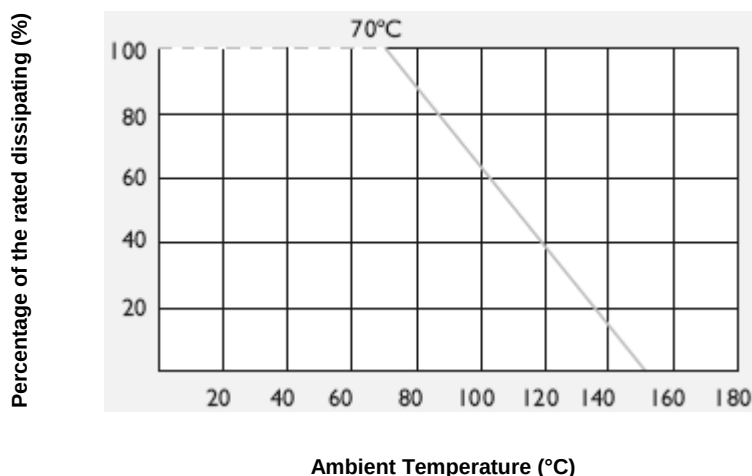
Absolute Maximum Ratings & Characteristics

Description		RCF 08T*	RCF S25T*	RCF 25T*	RCF S50T*	RCF 50T	RCF S1W	RCF 1W	RCF S2W	RCF 2W	RCF S3W	Unit
Power Rating at 70° C		1/6	1/4	1/4	1/2	1/2	1	1	2	2	3	W
Maximum Working Voltage		150	200	250	300	350	400	500	500	500	500	V
Maximum Overload Voltage		300	400	500	600	700	800	1000	1000	1000	1000	V
Dielectric Withstanding Voltage		300	400	500	500	500	700	1000	1000	1000	1000	V
Temperature Coefficient	<100KΩ	-350~500						-350~350				ppm/° C
	100KΩ~1MΩ	-700~0						-500~0				
	1MΩ~10MΩ	-1500~0						-1500~0				
Resistance Range(Note1)	(±2%, ±5%)	1~10M & 0										Ω
Operating Temperature Range		-55 to +155										° C

Note. * Current Rating for Zero Ohm Resistors - 15A for T-25 and 10A for T-12 at 70 degrees Ambient Temperature. Resistance ≤.005 Ohm.

Power derating curve

For resistors operate in the ambient temperature over 70°C, loading power ratio will derate in accordance with following curve.



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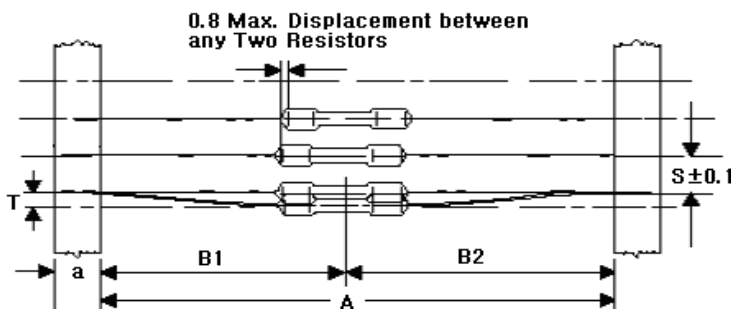
Environmental Performance Specification

Item	Test Methods		Specifications
Short Time Overload	IEC 60115-1 4.13	2.5 Times RCWV for 5 seconds	$\pm(0.75\%+0.05\Omega)$
Dielectric Withstanding Voltage	IEC 60115-1 4.7	In V-Block for 60 Seconds	by Type
Insulation Resistance	IEC 60115-1 4.6	In V-Block for 60 Sec	>1000M Ω
Solderability	IEC 60115-1 4.17	235°C $\pm$ 5°C for 3 $\pm$ 0.5 Seconds	95% Min. Coverage
Terminal Strength	IEC 60115-1 4.16	Direct Load for 10 Seconds in The Direction of The Terminal Leads	$\geq$ 2.5kg (24.5N)
Pulse Overload	IEC 60115-1 4.39	4 Times RCWV 1000 Cycle (1 sec. on, 25 sec. off)	$\pm(1\%+0.05\Omega)$
Load Life in Humidity	IEC 60115-1 4.24	40 $\pm$ 2°C, 90-95% RH at RCWV for 56 days, loaded with 0.1 times RCWV	$\pm(3\%+0.05\Omega)$
Load Life	IEC 60115-1 4.25	70°C at RCWV for 1000 Hrs (1.5 Hrs. on, 0.5 Hrs. off)	$\pm(3\%+0.05\Omega)$
Temperature Cycling	IEC 60115-1 4.19	-55°C $\rightarrow$ Rom Temp. $\rightarrow$ +155°C $\rightarrow$ Rom Temp. for 5 Cycles	$\pm(1\%+0.05\Omega)$
Resistance to Soldering Heat	IEC 60115-1 4.18	260°C $\pm$ 3°C for 10 $\pm$ 1Seconds, immersed to a point 3 $\pm$ 0.5mm from the body	$\pm(1\%+0.05\Omega)$

* Rated Continuous Working Voltage (RCWV) = $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$

Packing Information:

Carrier Tape Dimensions (in mm)

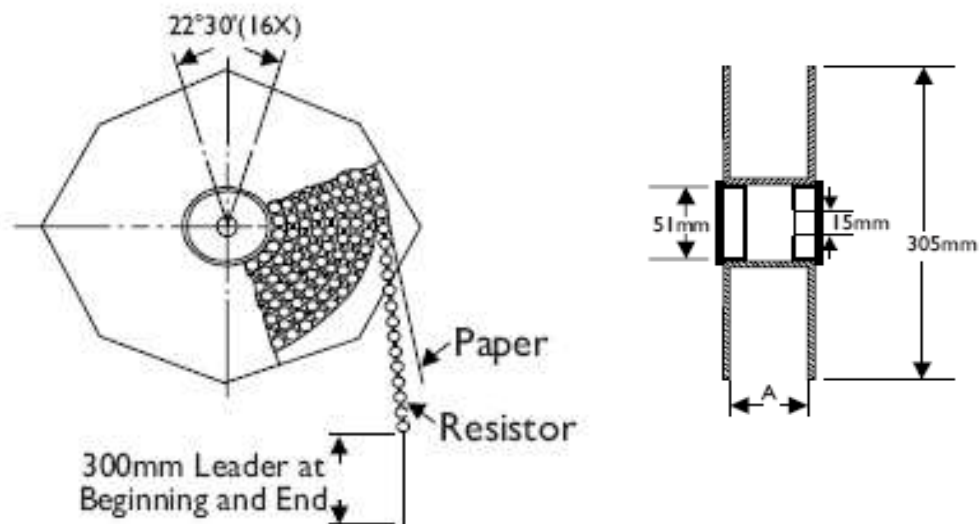


Outline	Type		a	A	B1-B2	S (Spacing)	T (Max. Deviation of Spacing)
T-12	RCF08T	RCFS25T	6 $\pm$ 0.5	52.4 $\pm$ 1.5	1.2	5	1mm Per 10 Spacings, 0.5mm Per 5 Spacings
T-25	RCF25T	RCFS50T	6 $\pm$ 0.5	52.4 $\pm$ 1.5	1.2	5	
T-50	RCF50T	RCFS1W	6 $\pm$ 0.5	52.4 $\pm$ 1.5	1.2	5	
T-100	RCF1W	RCFS2W	6 $\pm$ 0.5	73.0 $\pm$ 1.5	1.5	5	
T-200	RCF2W	RCFS3W	6 $\pm$ 0.5	73.0 $\pm$ 1.5	1.5	10	

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Tape on Reel Pack Information

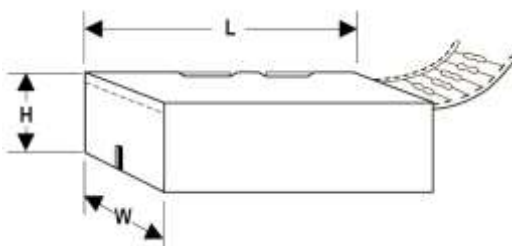


Outline	Reel/Inner Box Qty.	Across Flange (A)	Inner Box Size (LxWxH)	Inner Box Weight	Carton Qty.	Carton Size (LxWxH)	Carton Weight
	(pcs)	(mm)	(cm)	(kg)	(pcs)	(cm)	(kg)
T-12	5,000	72	29.0x8.0x29.6	0.90	50,000	60.0x30.5x43.5	11
T-25	5,000	72	29.0x8.0x29.6	1.40	50,000	60.0x30.5x43.5	16
T-50	2,500	72	29.0x8.0x29.6	1.38	25,000	60.0x30.5x43.5	15
T-100	2,000	95	29.2x9.8x29.6	1.95	20,000	60.0x30.5x54.5	21
T-200	1,000	95	29.2x9.8x29.6	1.50	10,000	60.0x30.5x54.5	16

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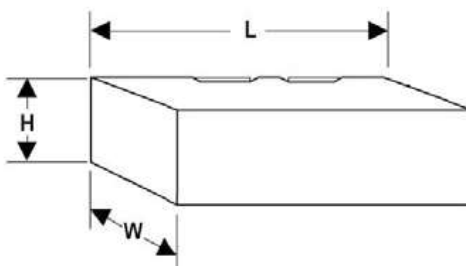
RCF & RCFS Series

Ammo Pack Information



Outline	Inner Box Qty.	Inner Box Size (LxWxH)	Inner Box Weight	Carton Qty.	Carton Size (LxWxH)	Carton Weight
	(pcs)	(cm)	(kg)	(pcs)	(cm)	(kg)
T-12	5,000	26.0x8.0x10.0	0.66	100,000	42.5x28.0x34.8	13.30
T-25	5,000	25.8x7.4x9.0	1.08	75,000	42.5x28.0x34.8	16.30
T-50	1,000	26.5x9.7x7.8	0.36	30,000	42.5x28.0x34.8	10.90
T-100	1,000	26.3x9.7x9.5	0.74	12,000	42.5x28.0x34.8	8.98
T-200	1,000	26.3x9.7x9.5	1.20	12,000	42.5x28.0x34.8	14.50

Bulk Pack Information

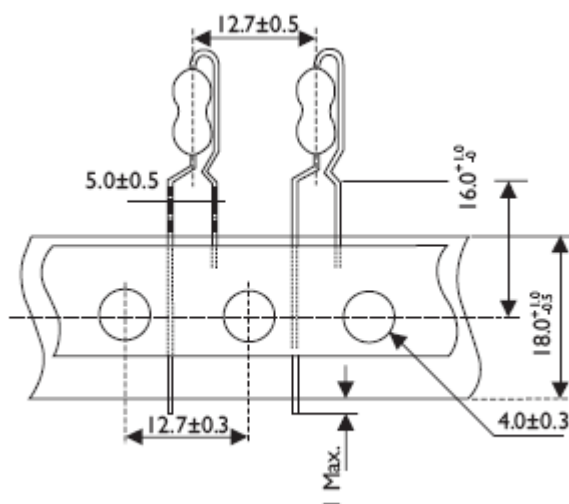


Outline	Inner Box Qty.	Inner Box Size (LxWxH)	Inner Box Weight	Carton Qty.	Carton Size (LxWxH)	Carton Weight
	(pcs)	(cm)	(kg)	(pcs)	(cm)	(kg)
T-12	10,000	26.3x9.7x11.7	1.10	160,000	42.5x28.0x34.8	18.2
T-25	10,000	26.3x9.7x11.7	1.82	100,000	42.5x28.0x34.8	19.0
T-50	5,000	26.3x9.7x11.7	1.93	50,000	42.5x28.0x34.8	20.0
T-100	2,000	26.3x9.7x11.7	1.64	32,000	42.5x28.0x34.8	26.0
T-200	1,000	26.3x9.7x11.7	1.06	16,000	42.5x28.0x34.8	18.0

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Panasert Type Forming for Taping



Outline	Type		L	ΦD	H	Φd
T-25	RCF25T	RCFS50T	6.3±0.5	2.4±0.2	28±2.0	0.55±0.05
T-50	RCF50T	RCFS1W	9.0±0.5	3.3±0.3	26±2.0	0.55±0.05

Panasert Type Pack Information

Tape on Reel Pack Information

Outline	Reel/Inner Box Qty. (pcs)	Inner Box Weight (kg)	Carton Qty. (pcs)	Carton Size (LxWxH) (cm)	Carton Weight (kg)
T-25	2,500	0.94	20,000	34x34x45	9
T-50	2,500	0.94	20,000	34x34x45	9

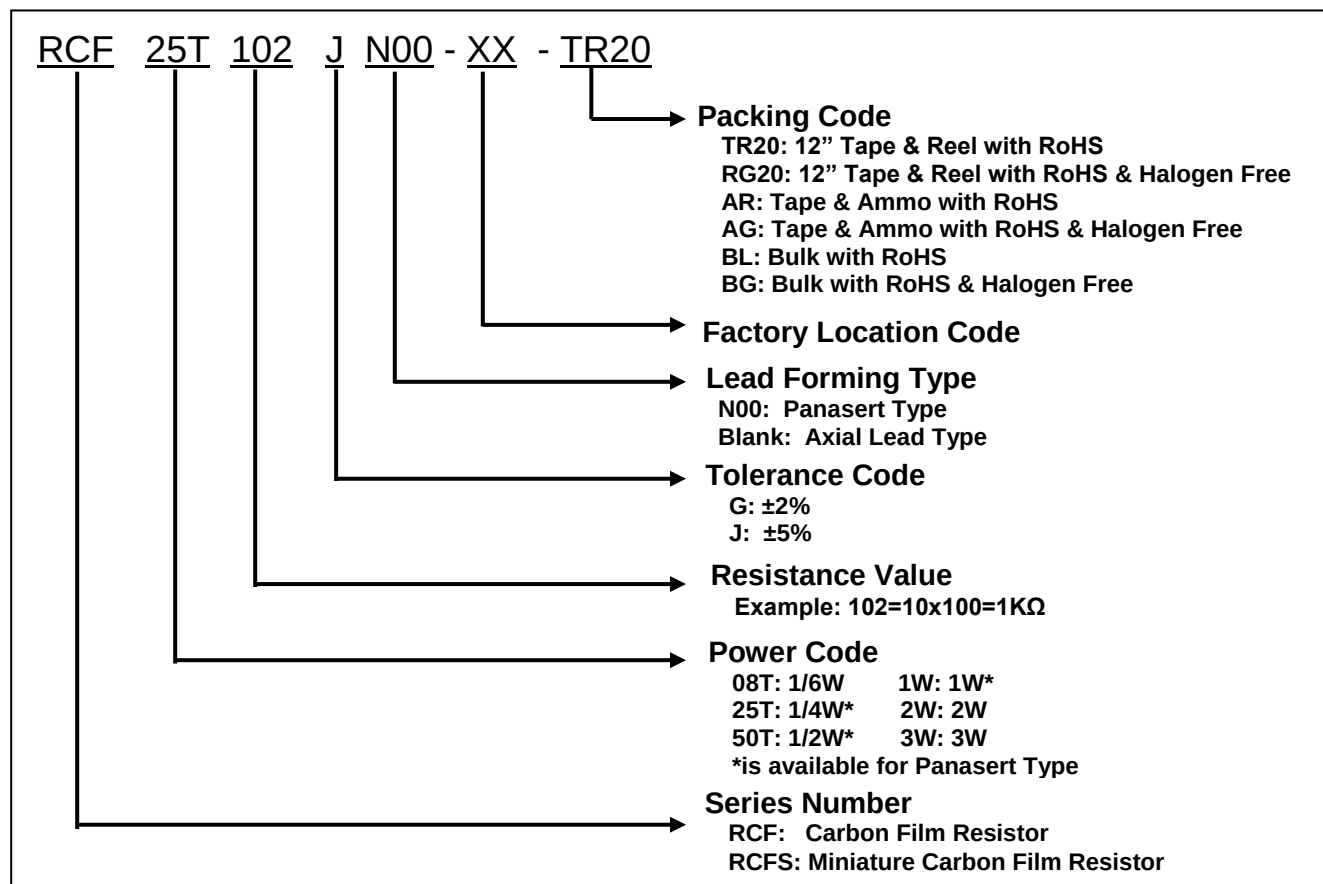
Ammo Pack Information

Outline	Inner Box Qty. (pcs)	Inner Box Weight (kg)	Carton Qty. (pcs)	Carton Size (LxWxH) (cm)	Carton Weight (kg)
T-25	2,000	0.66	20,000	42x26x25	8
T-50	1,500	0.77	22,500	44x28x36	13

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How to order:



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