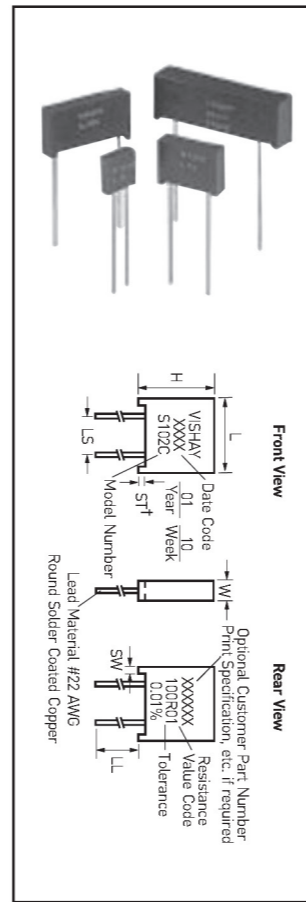
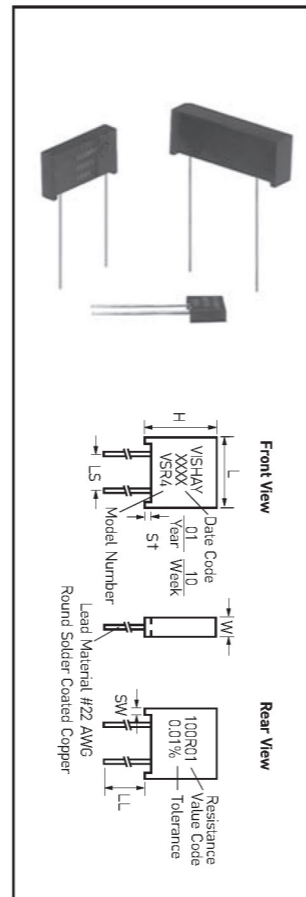


Model	Resistance Range[Ω]	Maximum Working Voltage[V]	Ambient Power Rating		Dimensions (mm)	Resistance Tolerance % VS. Lowest Resistance Value [Ω]
			@+70°C	@+125°C		
S102C (S102J) ⁽²⁾	1 to 150K	300	0.6W	0.3W (up to 100k)	W: 2.67±0.25 L: 7.62±0.25 H: 8.28±0.25 ST: 0.254 minimum	±0.005 / 50 ±0.01 / 25 ±0.02 / 12 ±0.05 / 5 ±0.1 / 2 ±0.5 / 1
S102K (S102L) ⁽²⁾	1 to 100K		0.4W	0.2W (over 100k)	SW: 1.02±0.13 LL: 25.4±3.18 LS: 3.81±0.13	
S104D (S104F) ⁽¹⁾	1 to 500K	350	1W	0.5W (up to 200k)	W: 4.06 maximum L: 14.61 maximum H: 10.49 maximum ST: 0.889±0.13	
S104K	1 to 300K		0.6W	0.3W (over 200k)	SW: 1.27±0.13 LL: 25.4±3.18 LS: 10.16±0.51	
S105D (S105F) ⁽¹⁾	1 to 750K	350	1.5W	0.75W (up to 300k)	W: 4.06 maximum L: 20.83 maximum H: 10.49 maximum ST: 0.889±0.13	
S105K	1 to 500K		0.8W	0.4W (over 300k)	SW: 1.27±0.13 LL: 25.4±3.18 LS: 16.51±0.51	
S106D	0.5 to 1M	500	2.0W	1.0W (up to 400k)	W: 6.60 maximum L: 30.48 maximum H: 10.49 maximum ST: 0.889±0.13	
S106K	0.5 to 600K		1.0W	0.5W (over 400k)	SW: 1.27±0.13 LL: 25.4±3.18 LS: 22.86±0.51	

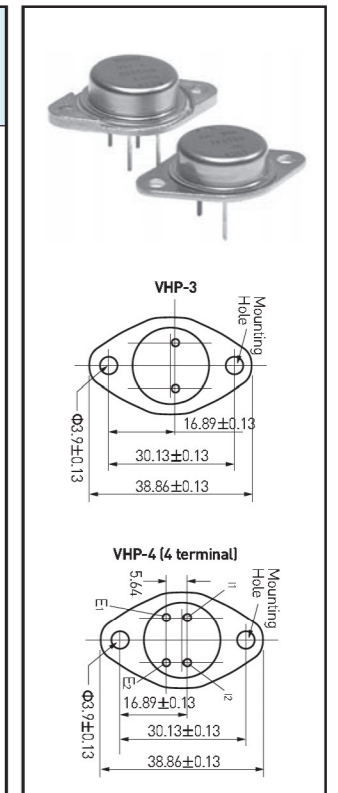


(1) S104F and S105F have different package dimensions
 (2) 5.08mm lead spacing available - specify S102J for S102C, and S102L for S102K

Model	Resistance Range[Ω]	Maximum Working Voltage[V]	Ambient Power Rating		Dimensions (mm)	Max. TCR of Resistance (+25°C Ref.)	Load-life Stability (MAXIMUM ΔR)
			@+70°C	@+125°C			
VSR VSRJ ⁽¹⁾	1 to 150K	300	0.3W	0.2W (up to 100k) 0.2W 0.1W (over 100k)	W: 2.67±0.25 L: 7.62±0.25 H: 8.28±0.25 ST: 0.254 minimum SW: 1.02±0.13 LL: 25.4±3.18 LS: 3.81±0.13	0°C to +60°C ±4ppm/°C -50°C to +125°C ±8ppm/°C	0.05% 2000 hours at +125°C
VSR4	1 to 500K	350	0.5W	0.4W (up to 200k) 0.25W 0.2W (over 200k)	W: 4.06 maximum L: 14.61 maximum H: 10.49 maximum ST: 0.889±0.13 SW: 1.27±0.13 LL: 25.4±3.18 LS: 10.16±0.51		
VSR5	1 to 750K	350	0.75W	0.6W (up to 300k) 0.4W 0.3W (over 300k)	W: 4.06 maximum L: 20.83 maximum H: 10.49 maximum ST: 0.89±0.13 SW: 1.27±0.13 LL: 25.4±3.18 LS: 16.51±0.51		
VSR6	0.5 to 1M	500	1W	0.8W (up to 400k) 0.5W 0.4W (over 400k)	W: 6.60 maximum L: 30.48 maximum H: 10.49 maximum ST: 0.889±0.13 SW: 1.27±0.13 LL: 25.4±3.18 LS: 22.86±0.51		

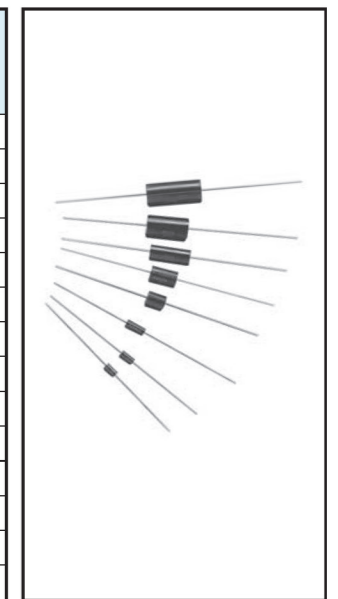


Model	Resistance Range[Ω]	Resistance Tolerance(%)	MAX. TCR [ppm/°C] ⁽¹⁾	Power at +25°C [W]	Maximum Voltage[V]
	25 to < 50	[±0.02]	±7		
	10 to < 25	[±0.05]	±10		
	5 to < 10	[±0.1]	±13		
	2 to < 5	[±0.25]	±20		
	1 to < 2	[±0.5]	±25		
	0.5 to < 1	[±1.0]	±50		
	0.25 to < 0.5	[±2.0]			
	0.1 to < 0.25	[±5.0]			
VHP-4	10 to 500	[±0.01]		±5	
	5 to < 10	[±0.02]	±6		
	2 to < 5	[±0.05]	±8		
	1 to < 2	[±0.1]	±10		
	0.5 to < 1	[±0.25]	±15		
	0.25 to < 0.5	[±0.5]	±20		
	0.1 to < 0.25	[±1.0]	±25		
	0.05 to < 0.1	[±2.0]	±30		



(1) -55°C to +125°C +25°C ref

Model	Resistance Range[Ω]	Maximum Working Voltage[V]	Power		Tolerance [%]	TCR Range ^{2,3}
			at +70°C	at +125°C		
VTA56	5 to 24R9 25 to 150K	300	0.25W	0.125W	[±0.1] [±0.01]	V4 Standard V3, V2 (Available)
VTA55	5 to 24R9 25 to 150K	300	0.3W	0.15W	[±0.1] [±0.01]	V4 Standard V3, V2 (Available)
VTA54	5 to 24R9 25 to 300K	300	0.5W	0.25W	[±0.1] [±0.01]	V4 Standard V3, V2 (Available)
VTA53	5 to 24R9 25 to 300K	300	0.66W	0.33W	[±0.1] [±0.01]	V4 Standard V3, V2 (Available)
VTA52	5 to 24R9 25 to 500K	300	1.0W	0.5W	[±0.1] [±0.01]	V4 Standard V3, V2 (Available)
VMTA55	5 to 49R9 50 to 30K	200	0.2W	0.1W	[±0.1] [±0.01]	V4 Standard V3, V2 (Available)
VMTB60	5 to 49R9 50 to 60K	250	0.25W	0.125W	[±0.1] [±0.01]	V4 Standard V3, V2 (Available)



Notes:

- For higher/lower resistance values, consult the Application Engineering Department.
- TCR options for values > 50 ohms (Reference + 25°C)
 V4 = 4ppm/°C (0 to +60°C); 8ppm/°C (-55°C to +125°C)
 V3 = 3ppm/°C (0 to +60°C); 5ppm/°C (-55°C to +125°C)
 V2 = 2ppm/°C (0 to +60°C); 5ppm/°C (-55°C to +125°C)

3. V4 TCR for values 50Ω

VALUES	TCR(for values under 50R) - TCR (ppm/°C)	
	0°C to +60°C	-55 to +125°C +25°C Ref.
25R - 50R	5	8
15R - 24R999	6	10
5R - 14R999	8	12
1R - 4R999	15	20