



<b>ELECTRICAL SPECIFICATIONS</b>		
Resistive element	Cermet	
Electrical travel	270° ± 15°	
Resistance range	10 Ω to 2.2 MΩ	
Standard series E3	1 - 2.2 - 4.7 and on request 1 - 2 - 5	
Tolerance standard	standard	± 20 %
	on request	± 10 %
Power rating	linear 0.5 W at 85 °C 	
Circuit diagram		
Temperature coefficient	See Standard Resistance Element Data	
Limiting element voltage (linear law)	250 V	
Contact resistance variation	3 % or 3 Ω	
End resistance (typical)	1 Ω	
Dielectric strength (RMS)	1000 V	
Insulation resistance	10 <sup>6</sup> MΩ	

<b>MECHANICAL SPECIFICATIONS</b>	
Mechanical travel	300° ± 5°
Operating torque (max. Ncm)	1.5
End stop torque (max. Ncm)	3
Unit weight (max. g)	0.5
Terminals	SnAg alloy (code e2)

<b>ENVIRONMENTAL SPECIFICATIONS</b>	
Temperature range	- 55 °C to + 125 °C
Climatic category	55/100/56
Sealing	IP64 For board cleaning, Vishay recommends testing before usage. Water immersion is forbidden. Ultrasonic may cause component damage or failure.



PERFORMANCES			
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS	
		$\Delta R_T/R_T$ (%)	$\Delta R_{1-2}/R_{1-2}$ (%)
Load life	1000 h at rated power 90'/30' - ambient temperature 70 °C	$\pm 3$ % Contact resistance variation: < 3 % Rn	$\pm 4$ %
Climatic sequence	Phase A dry heat 100 °C Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	$\pm 2$ %	$\pm 3$ %
Long term damp heat	56 days	$\pm 2$ % Dielectric strength: 1000 V <sub>RMS</sub> Insulation resistance: > 10 <sup>4</sup> M $\Omega$	$\pm 3$ %
Rapid temperature change	5 cycles - 55 °C at + 125 °C	$\pm 1$ %	$\Delta V_{1-2}/\Delta V_{1-3}$ $\leq \pm 2$ %
Shock	50 g - 11 ms 3 successive shocks in 3 directions	$\pm 0.5$ %	$\pm 1$ %
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g during 6 h	$\pm 0.5$ %	$\Delta V_{1-2}/\Delta V_{1-3}$ $\leq \pm 1$ %
Rotational life	200 cycles	$\pm 3$ % Contact resistance variation: < 3 % Rn	

STANDARD RESISTANCE ELEMENT DATA				
STANDARD RESISTANCE VALUES	LINEAR LAW			TYPICAL TCR - 55 °C to + 125 °C
	MAX. POWER AT 85 °C	MAX. WORKING VOLTAGE	MAX. WIPER CURRENT	
$\Omega$	W	V	mA	ppm/°C
10	0.5	2.2	224	$\pm 100$
22	0.5	3.3	150	
47	0.5	4.8	103	
100	0.5	7.0	70	
220	0.5	10.5	47	
470	0.5	15.3	32	
1K	0.5	22.4	22	
2.2K	0.5	33.2	15	
4.7K	0.5	48.5	10	
10K	0.5	70.7	7.0	
22K	0.5	105	4.8	
47K	0.5	153	3.2	
100K	0.5	224	2.2	
220K	0.28	250	1.1	
470K	0.13	250	1.53	
1M	0.06	250	0.25	
2.2M	0.028	250	0.11	

MARKING
<ul style="list-style-type: none"> <li>• Vishay trademark</li> <li>• Model</li> <li>• YA or YB style</li> <li>• Ohmic value (in <math>\Omega</math>, k<math>\Omega</math>, M<math>\Omega</math>)</li> <li>• Manufacturing date</li> <li>• Marking of terminal: 3</li> </ul>



PACKAGING
<ul style="list-style-type: none"> <li>In box of 200 pieces, code B40</li> <li>On request: In tube of 50 pieces, code T20 (TU50)</li> </ul>

ORDERING INFORMATION (part number)														
T	7	Y	A	4	7	4	M	B	4	0				
MODEL	STYLE	OHMIC VALUE		TOLERANCE		PACKAGING CODE		SPECIAL NUMBER						
T7	YA YB X	From 10 Ω to 2.2 MΩ 103 = 10K		M = 20 % On request: K = 10 %		B40 = Box 200 pieces On request: T20 = Tube 50 pieces		(If applicable) Given by Vishay for custom design						

DESCRIPTION (for information only)						
T7	YA	470K	20 %		BO	e2
MODEL	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH



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**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

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С нами вы становитесь еще успешнее!

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