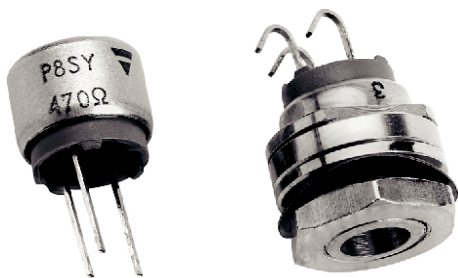


8.5 mm Diameter Fully Sealed Container Cermet Trimmer



FEATURES

- Industrial grade
 - High quality cermet resistive track:
 - 1 W at 70 °C, P8ST
 - 0.5 W at 70 °C, P8SX and P8SY
 - Test according to CECC 41000 or IEC 60393-1
 - Wide resistance range (10 Ω to 2.2 M Ω)
 - Material categorization: For definitions of compliance please see www.vishay.com/doc/299912
- 

RoHS
COMPLIANT



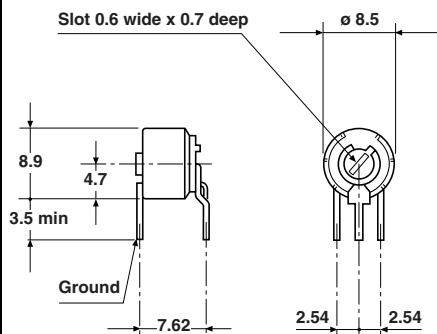
RoHS
COMPLIANT

The P8S series trimmers are well adapted for all industrial applications as their maximum resistance contact variation is within 3 % of R_n and as they are fully sealed.

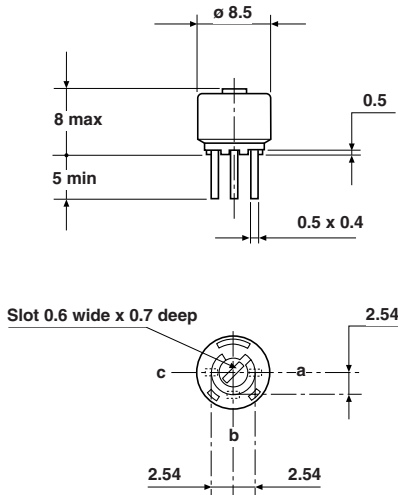
For more stringent requirements the P8P series is recommended.

DIMENSIONS in millimeters (± 0.5 mm)

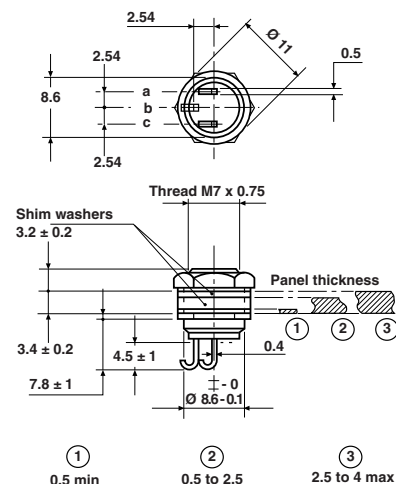
P8SX



P8SY

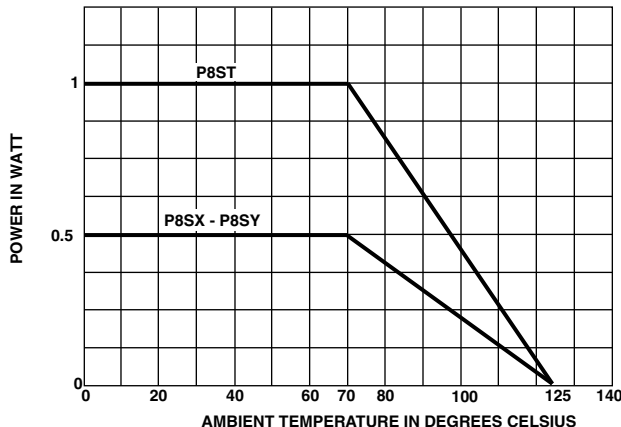
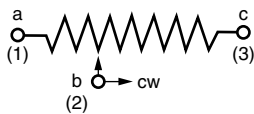


P8ST



**Consult Vishay Sfernice for
panel sealed type**

**ELECTRICAL SPECIFICATIONS**

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	± 10 %
	on request	± 5 %
Power rating	P8SX, P8SY	0.5 W at 70 °C
	P8ST	1 W at 70 °C
Power rating chart	 The chart shows the power rating in Watts versus ambient temperature in degrees Celsius. The P8ST series (1 W at 70 °C) has a constant power rating of 1 W from 0 to 70 °C, then decreases linearly to 0 W at 125 °C. The P8SX - P8SY series (0.5 W at 70 °C) has a constant power rating of 0.5 W from 0 to 70 °C, then decreases linearly to 0 W at 125 °C.	
Circuit diagram	 The circuit diagram shows a resistor with three terminals: a (1), b (2), and c (3). Terminal b (2) is the center terminal, and terminals a (1) and c (3) are the end terminals. The resistor is represented by a zigzag line between a and c, with b in the middle. An arrow points from b to c, labeled 'cw'.	
Temperature coefficient		See Standard Resistance Element Table
Limiting element voltage (linear law)		250 V
Contact resistance variation		3 % R _n or 3 Ω
End resistance (typical)		1 Ω
Dielectric strength (RMS)		1000 V
Insulation resistance (500 V _{DC})		1 GΩ

MECHANICAL SPECIFICATIONS

Mechanical travel		300° ± 5°
Operating torque (max. Ncm)		3
End stop torque (max. Ncm)		6
Unit weight (max. g)	P8SX, P8SY P8ST	1.1 3.6
Terminals		SnAg alloy (code e2)

ENVIRONMENTAL SPECIFICATIONS

Temperature range		- 55 °C to + 125 °C
Climatic category		55/125/56
Sealing		IP67 Fully sealed



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	± 2 % Contact res. variation: < 3 % R _n	± 3 %
Climatic sequence	Phase A dry heat 100 °C Phase B damp heat Phase C cold - 55 °C Phase D damp heat 5 cycles	± 0.5 %	± 1 %
Long term damp heat	56 days 40 °C, 93 % RH	± 1 % Dielectric strength: 1000 V _{RMS} Insulation resistance: > 10 ⁴ MΩ	± 2 %
Rapid temperature change	5 cycles - 55 °C to + 125 °C	± 0.5 %	$\Delta V_{1-2}/\Delta V_{1-3}$ ≤ ± 1 %
Shock	50 g at 11 ms 3 successive shocks in 3 directions	± 0.2 %	± 0.5 %
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g during 6 h	± 0.2 %	$\Delta V_{1-2}/\Delta V_{1-3}$ ≤ ± 0.5 %
Rotational life	200 cycles	± 3 % Contact res. variation: < 3 % R _n	

STANDARD RESISTANCE ELEMENT DATA							
STANDARD RESISTANCE VALUES	P8SX, P8SY			P8ST			TYPICAL TCR - 55 °C to + 125 °C
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. CURRENT THROUGH WIPER	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. CURRENT THROUGH WIPER	
Ω	W	V	mA	W	V	mA	ppm/°C
10	0.5	2.2	224	1	3.16	316	± 100
22	0.5	3.3	150	1	4.69	213	
47	0.5	4.8	103	1	6.86	146	
100	0.5	7.0	70	1	10.0	100	
220	0.5	10.5	47	1	14.8	67	
470	0.5	15.3	32	1	21.7	46	
1K	0.5	22.4	22	1	31.6	32	
2.2K	0.5	33.2	15	1	46.9	21	
4.7K	0.5	48.5	10	1	68.6	15	
10K	0.5	70.7	7.0	1	100	10	
22K	0.5	105	4.8	1	148	6.7	
47K	0.5	153	3.2	1	217	4.6	
100K	0.5	224	2.2	0.63	250	2.5	
220K	0.28	250	1.1	0.28	250	1.1	
470K	0.13	250	0.53	0.13	250	0.53	
1M	0.06	250	0.25	0.06	250	0.25	
2.2M	0.028	250	0.11	0.03	250	0.11	



MARKING

- Vishay trademark
- Model
- Style
- Ohmic value (in Ω , k Ω , M Ω)
- Tolerance (in %)
- Manufacturing date
- Marking of terminal: 3

PACKAGING

- In plastic box of 50 pieces, code B25 (BL50)

ORDERING INFORMATION (part number)

P	8	S	X	1	0	4	K	B	2	5				
MODEL	STYLE			OHMIC VALUE			TOLERANCE	PACKAGING CODE			SPECIAL NUMBER			
P8	ST SX SY			From 10 Ω to 2.2 M Ω 103 = 10K			K = 10 % On request: J = 5 %	B25 = Box 50 pieces			(If applicable) Given by Vishay for custom design			

PART NUMBER DESCRIPTION (for information only)

P8	S	X	100K	10 %		BL	e2
MODEL	STYLE	STYLE	VALUE	TOLERANCE	SPECIAL	PACKAGING	LEAD FINISH



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- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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JONHON

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