

ELECTRICAL SPECIFICATIONS		
Resistive element	Cermet	
Electrical travel	$270^\circ \pm 10^\circ$	
Resistance range	22Ω to $4.7 \text{ M}\Omega$	
Standard series E3	1 - 2.2 - 4.7 and on request 1 - 2 - 5	
Tolerance	Standard	$\pm 20 \%$
	On request	$\pm 5 \%$ or $\pm 10 \%$
Power rating	Linear	0.5 W at $+70^\circ \text{C}$
	Logarithmic laws, L, F, or S and ganged elements	0.25 W at $+70^\circ \text{C}$
Power rating chart		
Circuit diagram		
Resistance laws		
Temperature coefficient (for $R_n \geq 100 \Omega$) (typical)	$\pm 100 \text{ ppm}/^\circ \text{C}$	
Limiting element voltage	350 V	
Contact resistance variation	2% R_n or 3Ω (linear law)	
End resistance (typical)	2Ω	
Independent linearity (typical)	$\pm 3 \%$ (linear law)	
Middle keying point (C V1M typical)	$\pm 3 \%$	
Insulation resistance	$10^6 \text{ M}\Omega$ (500 V _{DC})	
Dielectric strength (RMS)	1500 V _{RMS}	

MECHANICAL SPECIFICATIONS	
Mechanical travel	$300^\circ \pm 5^\circ$
End stop torque (max. Ncm)	35
Mechanical life	2000 cycles
Terminals	Pure Sn (code e3)

Note

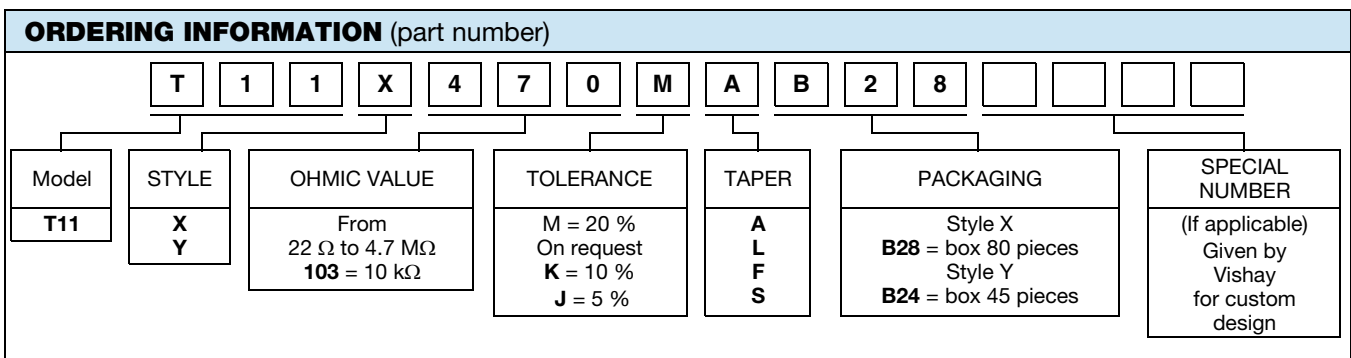
- Nothing stated herein shall be construed as a guarantee of quality or durability



ENVIRONMENTAL SPECIFICATIONS	
Temperature range	-55 °C to +125 °C
Climatic category	55/125/56
Sealing	Enables cleaning IP64

MARKING
<ul style="list-style-type: none"> Vishay trademark Model SAP code of ohmic value Tolerance (in %) Manufacturing date (4 digits) Marking of terminal 3

PACKAGING
Style Y <ul style="list-style-type: none"> Carton box of 45 pieces, code B24/BO45 Style X <ul style="list-style-type: none"> Carton box of 80 pieces, code B28/BO80



DESCRIPTION (for information only)							
T11	X	470U	20 %	A		BO	e3
MODEL	STYLE	VALUE	TOLERANCE	TAPER	SPECIAL	PACKAGING	LEAD FINISH

RELATED DOCUMENTS	
APPLICATION NOTES	
Potentiometers and Trimmers	www.vishay.com/doc?51001
Guidelines for Vishay Sfernice Resistive and Inductive Components	www.vishay.com/doc?52029



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