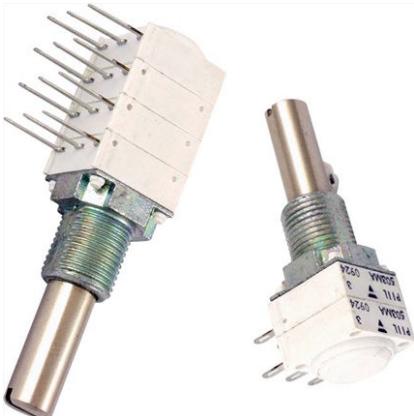


Long Life Cermet Potentiometer 2 Million Cycles



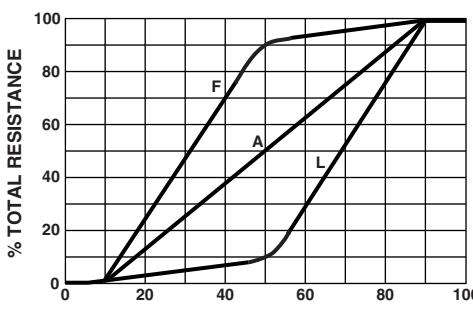
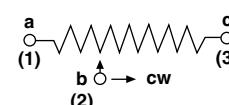
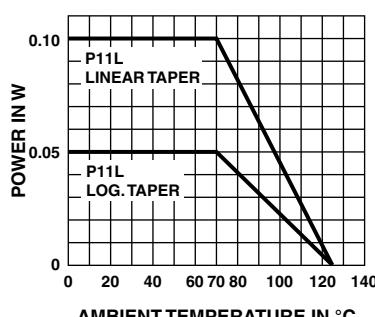
FEATURES

- 2 million cycles
- Cermet element
- 12.5 mm square single turn panel control
- 4, 6 and 6.35 shaft diameters and 29 terminal styles
- Multiple assemblies - up to four modules
- Test according to CECC 41000 or IEC 60393-1
- Low temperature coefficient
- Custom designs on request
- Linearity $\pm 3\%$ ($\pm 2\%$ available)
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


**RoHS
COMPLIANT**

VERSATILE	MODULAR	COMPACT	ROBUST
CONFIGURATION EXAMPLE - Dimensions in millimeters (inches) $\pm 0.5\text{ mm}$ ($\pm 0.02\text{ in}$)			
Single module, single shaft, vertical mounting, PC pins with support plate, metric bushing and shaft			
Dual modules, single shaft, PC pins with front support plates, imperial bushing and shaft			

GENERAL SPECIFICATIONS

ELECTRICAL (initial)							
Resistive Element	Cermet						
Electrical Travel	270° ± 10°						
Standard Resistance Values	1 kΩ, 5 kΩ, 10 kΩ, 50 kΩ						
Tolerance	<table> <tr> <td>Standard</td><td>± 20 %</td></tr> <tr> <td>On Request</td><td>± 5 % or ± 10 %</td></tr> </table>	Standard	± 20 %	On Request	± 5 % or ± 10 %		
Standard	± 20 %						
On Request	± 5 % or ± 10 %						
Taper							
Circuit Diagram							
Power Rating at 70 °C	<table> <tr> <td>Linear Taper</td><td>0.1 W at + 70 °C</td></tr> <tr> <td>Non-Linear Taper</td><td>0.05 W at + 70 °C</td></tr> <tr> <td>Multiple Assemblies</td><td>0.1 W at + 70 °C per module</td></tr> </table> 	Linear Taper	0.1 W at + 70 °C	Non-Linear Taper	0.05 W at + 70 °C	Multiple Assemblies	0.1 W at + 70 °C per module
Linear Taper	0.1 W at + 70 °C						
Non-Linear Taper	0.05 W at + 70 °C						
Multiple Assemblies	0.1 W at + 70 °C per module						
Temperature Coefficient (Typical)	± 150 ppm						
Limiting Element Voltage	350 V						
End Resistance (Typical)	2 Ω						
Independent Linearity	± 3 % (± 2 % available)						
Insulation Resistance	10 ⁶ MΩ min.						
Dielectric Strength	1500 V _{RMS} min.						
Attenuation	-						
Mechanical Endurance	2 000 000 cycles						

MECHANICAL (initial)	
Mechanical Travel	300° ± 5°
Operating Torque (Typical)	
Single and Dual Assemblies	0.4 Ncm to 1.7 Ncm max. (0.57 oz.-inch to 2.55 oz.-inch max.)
Three to Four Modules (Per Module)	0.2 Ncm to 0.3 Ncm max. (0.28 oz.-inch to 0.42 oz.-inch max.)
End Stop Torque	
4 mm Dia. Shafts	35 Ncm max. (2.9 lb-inch max.)
6 mm and 1/4" Dia. Shafts	80 Ncm max. (6.8 lb-inch max.)
Tightening Torque	
7 mm Dia. Bushings	150 Ncm max. (13 lb-inch max.)
10 mm and 3/8" Dia. Bushings	250 Ncm max. (21 lb-inch max.)
Weight	7 g to 9 g per module (0.25 oz. to 0.32 oz.)

ENVIRONMENTAL	
Operating Temperature Range	- 55 °C to + 125 °C
Climatic Category	55/125/56
Sealing	IP64

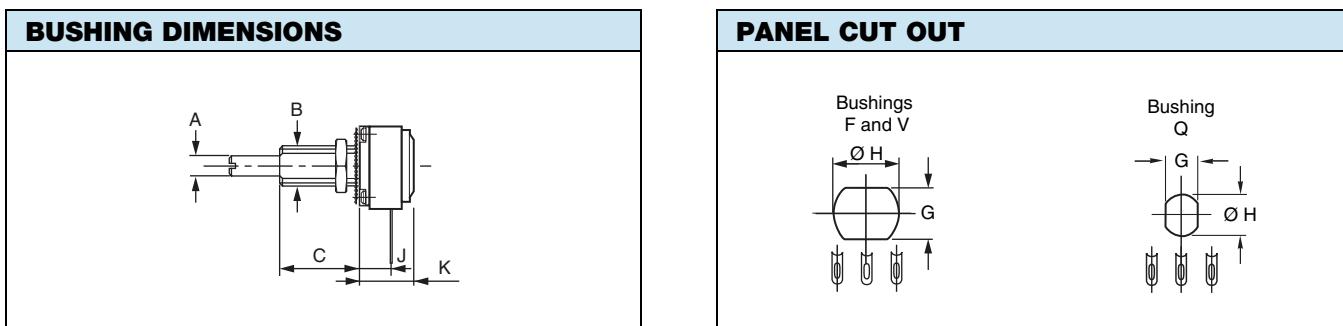
MARKING	PACKAGING
<ul style="list-style-type: none"> Potentiometer Module Vishay logo, nominal ohmic value, and tolerance (code), identify P11L version, variation law, manufacturing date (four digits), "3" for the lead 3 Switch Module Version, manufacturing date (four digits), "c" for common lead 	<ul style="list-style-type: none"> Box

PERFORMANCES				
TESTS	CONDITIONS	TYPICAL VALUES AND DRIFTS		
		ΔR _T /R _T (%)	ΔR ₁₋₂ /R ₁₋₂ (%)	OTHER
Electrical Endurance	1000 h at rated power 90'/30' - ambient temp. 70 °C	± 2 %	-	-
Climatic Sequence	Dry heat at + 125 °C/damp heat cold - 55 °C/damp heat, 5 cycles	± 1 %	-	-
Damp Heat, Steady State	+ 40 °C, 93 % relative humidity 56 days	± 2 %	-	Insulation resistance: > 1000 MΩ
Change of Temperature	- 55 °C to + 125 °C, 5 cycles	± 0.2 %	-	-
Mechanical Endurance	2 million cycles turn angle: ± 60° temperature: 20 °C	± 20 %	-	Independent linearity: ± 10 %
Shock	50 g's, 11 ms 3 shocks - 3 directions	± 0.2 %	± 0.5 %	-
Vibration	10 Hz to 55 Hz 0.75 mm or 10 g's, 6 h	± 0.2 %	-	ΔV ₁₋₂ /V ₁₋₃ = ± 0.5 %

ORDERING INFORMATION (part number)																	
P	1	1	L	2	F	A	G	O	S	Y	0	0	5	0	2	K	A
MODEL	NUMBER OF MODULES		BUSHING	LOCATING PEG		SHAFT	SHAFT STYLE		LEADS		RESISTANCE CODE/TOLERANCE/TAPER OR SPECIAL						
P11L	1 2 3 4																

STANDARD RESISTANCE ELEMENT DATA				
STANDARD RESISTANCE VALUES	LINEAR TAPER		NON-LINEAR TAPER	
	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE	MAX. POWER AT 70 °C	MAX. WORKING VOLTAGE
Ω	W	V	W	V
1K	0.1	10.0	0.05	7.1
5K	0.1	22.4	0.05	15.8
10K	0.1	31.6	0.05	22.4
50K	0.1	70.7	0.05	50.0

ORDERING INFORMATION (part number)																											
P	1	1	L	2	F	A	G	O	S	Y	0	0	5	0	2	K	A										
MODEL	NUMBER OF MODULES	BUSHING		LOCATING PEG		SHAFT	SHAFT STYLE		LEADS		RESISTANCE CODE/TOLERANCE/TAPER OR SPECIAL																
		<table border="1"> <thead> <tr> <th></th><th>\emptyset</th><th>L</th></tr> </thead> <tbody> <tr> <td>F</td><td>3/8"</td><td>3/8"</td></tr> <tr> <td>Q</td><td>7</td><td>8</td></tr> <tr> <td>V</td><td>10</td><td>9.5</td></tr> </tbody> </table>			\emptyset	L	F	3/8"	3/8"	Q	7	8	V	10	9.5												
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Q	7	8																									
V	10	9.5																									



BUSHINGS		mm (± 0.5)	mm (± 0.5)	INCHES (± 0.02)
		V	Q	F
A	Shafts	\emptyset	6	4
B	Bushing	\emptyset	10	7
C		L	9.5	3/8
J	Lead versions X.. Y..		7	0.278
	K		11.1	0.436
G	Panel		8.2	0.323
H	Cutout	\emptyset	10.5	7.5
	Thread		0.75	32 thread/inch
	Wrench nut		12	0.500

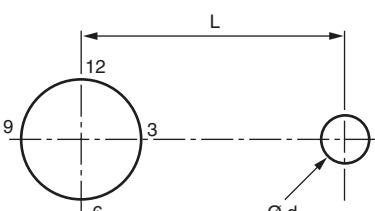
Note

- Hardware supplied in separate bags

ORDERING INFORMATION (part number)																	
P	1	1	L	2	F	A	G	O	S	Y	0	0	5	0	2	K	A
MODEL	NUMBER OF MODULES	BUSHING		LOCATING PEG		SHAFT	SHAFT STYLE		LEADS	RESISTANCE CODE/TOLERANCE/TAPER OR SPECIAL							
				A = See table below													
		B =		C =		0 = Without peg											

LOCATING PEGS (anti-rotation lug)			
The locating peg is provided by a plate mounted on the bushing and positioned by the module sides. Four set positions are available, clock face orientation: 12, 3, 6, 9.			
All P11 bushings have a double flat. When panel mounting holes have been punched accordingly, an anti-rotation lug is not necessary.			
Locating peg code C not available for bushing Q.			
CODE	$\varnothing d$ (mm)	L (mm)	e (mm)
A	2	6.2	0.7
B	2	7.75	0.7
C	3.5	13.5	1.1

Locating pegs are supplied in separate bags with nuts and washers



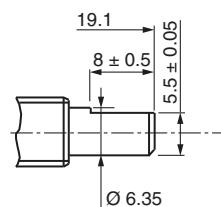
ORDERING INFORMATION (part number)																																																					
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SHAFTS - Dimensions in millimeters (inches)

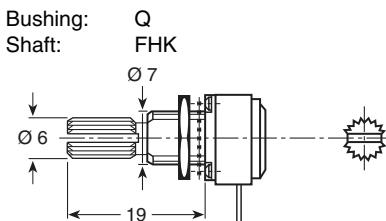
The shaft length is always measured from the mounting face.
 Standard shafts are designed by a 3 letters code (3 digits).
 Shafts slots are aligned to $\pm 10^\circ$ of the wiper position.
 All standard shafts are slotted except flattened and splined, see exceptions for bushing.

FLATTED SHAFT

Bushing: F
 Shaft: GHF



SPLINED SHAFT



CUSTOM SHAFTS

When special shafts are required - flat, threaded ends, special shaft lengths, etc. a drawing is required.

STANDARD COMBINATION OF SHAFT STYLES AND BUSHINGS

SHAFT DIA.	BUSHING CODE	SHAFT LENGTH AND STYLE AVAILABLE IN STANDARD (others on request)					
6	V	FGS	FLS	FRS			
6.35	F	GGS	GHS	GJS	GLS	GOS	GHF
4	Q	EAS	EBS	EJS	FHK		

ORDERING INFORMATION (part number)

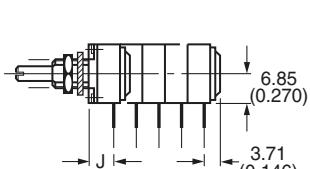
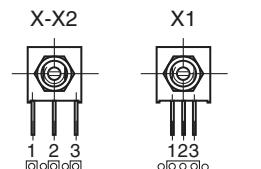
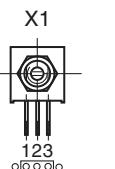
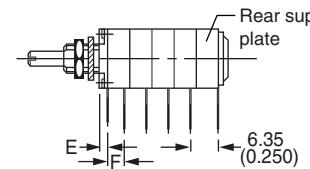
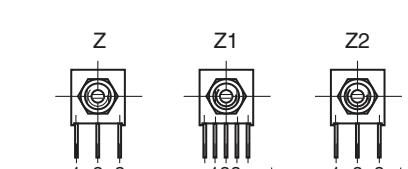
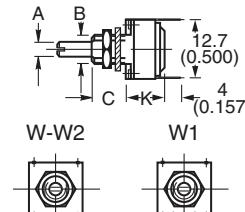
P	1	1	L	2	F	A	G	O	S	Y	0	0	5	0	2	K	A		
MODEL	NUMBER OF MODULES		BUSHING		LOCATING PEG		SHAFT		SHAFT STYLE	LEADS									
										Available leads									
										A00	W00	X00	Y00	Z00			RESISTANCE CODE/ TOLERANCE/ TAPER OR SPECIAL		
										A10	W10	X03	Y03	Z03					
										A13	W20	X04	Y04	Z04					
										A14		X10		Z10					
										A20		X13		Z13					
										A23		X14		Z14					
										A24		X20		Z20					
												X23		Z23					
												X24		Z24					

FIRST DIGIT	
Y	Soldering lugs
X	PCB pins
Z	PCB pins with front support plate
A	PCB pins with front and back support plates
W	PCB pins - vertical mounting with 2 extra pins - 1 module only

SECOND DIGIT	
0	Y = 4.65 (0.183") A, X, Z, W = 5.08 (0.200") pin spacing pins section 0.9 x 0.3 (0.035" x 0.012")
1	2.54 (0.100") pin spacing pin section 0.6 x 0.3 (0.024" x 0.012")
2	5.08 (0.200") pin spacing pins section 0.6 x 0.3 (0.024" x 0.012")

THIRD DIGIT	
0	5.08 (0.200") space between modules
3	7.62 (0.300") space between modules
4	10.16 (0.400") space between modules

DIMENSIONS in millimeters (inches) ± 0.5 mm (± 0.02)

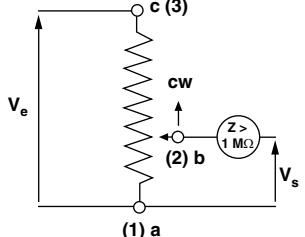
SOLDER LUGS Y		PCB PIN OUT	
			
HORIZONTAL MOUNTING			
FRONT AND REAR SUPPORT PLATES			
 Rear support plate E F A/A2 A1 1 3.81 (0.150) 2 3.81 (0.150) 3 3.81 (0.150)			
FRONT SUPPORT PLATE			
 Z Z1 Z2 1 5.08 (0.200) 2 2.54 (0.100) 3 5.08 (0.200) 4 3.81 (0.150) 5 5.08 (0.200) 6 3.81 (0.150)			
VERTICAL MOUNTING			
 A B C D E F G H I J K L W-W2 W1 1 12.7 (0.500) 2 4 (0.157) 3 12.7 (0.500) 4 12.7 (0.500) 5 5.08 (0.200) 6 2.54 (0.100)			

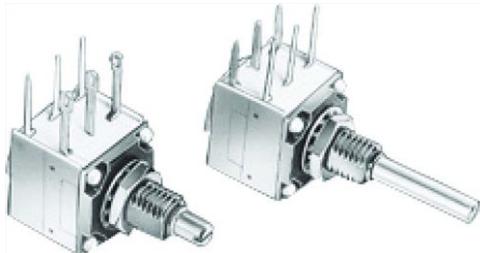
THE POSITION OF EACH MODULE IS FREE

BUSHINGS	MILLIMETERS (± 0.5)		INCHES (± 0.02)	
	V	Q		
E Leads Z00	3.85	1.85	0.150	
E Leads Z1. Z2. A..	3.6	1.6	0.140	
F	Leads Z0: 5.08 (0.200")		Leads A..Z1, Z2: 3.81 (0.150")	
J Leads X..Y..	7	5	0.278	

ORDERING INFORMATION (part number)																	
P	1	1	L	2	F	A	G	O	S	Y	0	0	5	0	2	K	A
MODEL	NUMBER OF MODULES	BUSHING	LOCATING PEG	SHAFT	SHAFT STYLE	LEADS	RESISTANCE CODE/ TOLERANCE/ TAPER OR SPECIAL										
Resistance code: 1K = 102 5K = 502 10K = 103 50K = 503 Tolerance code: Standard: M = $\pm 20\%$ On request: K = $\pm 10\%$, J = $\pm 5\%$ Taper: A, L, F or special code given by Vishay																	

SPECIAL CODES GIVEN BY VISHAY
Option available:
<ul style="list-style-type: none"> Custom shaft Specific design on request Specific linearity Multiple assemblies with various modules

APPLICATION NOTE
<p>The potentiometer shall be used in voltage divider with an impedance load at least 100 times higher than the total potentiometer nominal resistance value.</p> <p>Advised load impedance: 1 MΩ min. for resistance range of 1 kΩ to 50 kΩ</p> 

P11L OPTION: ROTARY SWITCH MODULES


- Rotary switches
- Current up to 2 A
- Actuation CW or CCW position
- Sealing IP60

**MODULES: RS ON/OFF SWITCH
RSI CHANGEOVER SWITCH**

The position of each module is free.

RS and RSI rotary switches are housed in a standard P11L module size 12.7 mm x 12.7 mm x 5.08 mm (0.5" x 0.5" x 0.2"). They have the same terminal styles as the assembled electrical modules.

An assembly can comprise 1 or more switch modules.

Switch actuation is described as seen from the shaft end.

D: Means actuation in maximum CCW position

F: Means actuation in maximum CW position

The switch actuation travel is 25° with a total mechanical travel of 300° ± 5° and electrical travel of electrical modules is 238° ± 10°.

Leads finish: Gold plated

RDS SINGLE POLE SWITCH, NORMALLY OPEN

In full CCW position, the contact between 1 and 3 is open. It is made at the beginning of the travel in CW direction.

RSF SINGLE POLE SWITCH, NORMALLY OPEN

In full CW position, the contact between 1 and 3 is open. It is made at the beginning of the travel in CCW direction.

RSID SINGLE POLE CHANGEOVER

In full CCW position, the contact is made between 3 and 2 and open between 3 and 1. Switch actuation (CW direction) reverses these positions.

RSIF SINGLE POLE CHANGEOVER

In full CW position, the contact is made between 1 and 2 and open between 1 and 3. Switch actuation (CCW direction) reverses these positions.

ORDERING INFORMATION (First order only)
RSID
RSD

SPST: Single pole, open switch in CCW position - 2 pins

RSF

SPST: Single pole, open switch in CW position - 2 pins

RSID

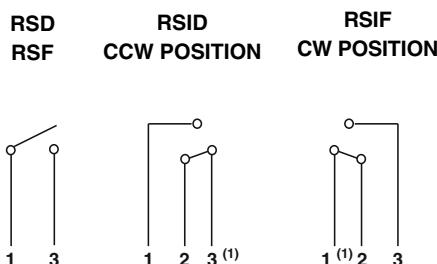
SPDT: Single pole, changeover switch in CCW position - 3 pins

RSIF

SPDT: Single pole, changeover switch in CW position - 3 pins

SWITCH SPECIFICATIONS

Switching Power Maximum	0.5 VA =	
Switching Current Maximum	0.1 A, 5 V =	
Maximum Current Through Element	2 A	
Contact Resistance	100 mΩ	
Dielectric Strength	Terminal to Terminal	1000 V _{RMS}
	Terminal to Bushing	2000 V _{RMS}
Maximum Voltage Operation	5 V =	
Insulation Resistance Between Contacts	10 ⁶ MΩ	
Life at P _{max.}	100 000 actuations	
Minimal Travel	25°	
Operating Temperature	- 40 °C to + 85 °C	

ELECTRICAL DIAGRAM

Note

(1) Common

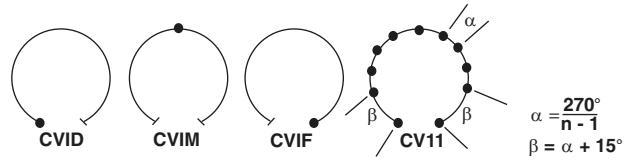
P11L OPTION: DETENT MODULES

The detents mechanism is housed in a standard P11L module.
Up to 21 detent positions available.

Count detents as follows: 1 for CCW position, 1 for full CW position, plus the other positions forming equal resistance increments (linear taper) - not equal angles.

Available: CVID - CVIF - CVIM
CV3 - CV11 - CV21

Mechanical endurance: 50 000 cycles



ORDERING INFORMATION (First order only for special code creation)

CV1M

CV1M	1 detent at half travel
CV1D	1 detent at CCW position
CV1F	1 detent at CW position
CV3	3 detents
CV11	11 detents
CV21	21 detents

P11L OPTION: NEUTRAL MODULES "EN"

Neutral or screen module is housed in a standard P11L module.
It is used as a screen between two electrical modules.

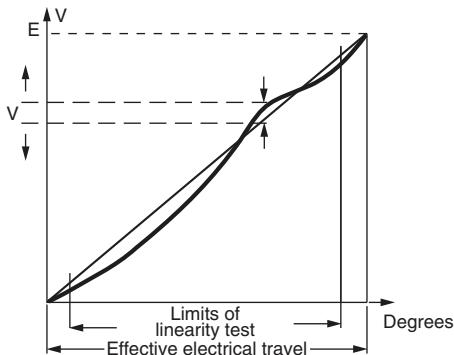
The leads can be connected to ground.

ORDERING INFORMATION (First order only for special code creation)

EN

EN	Neutral module
-----------	----------------

P11L OPTION: SPECIAL LINEARITY - CONFORMITY



The independent linearity (conformity for the non-linear laws) is the maximum gap ΔV between the actual variation curve and the theoretical variation curve the nearest to it. The linearity and the conformity are expressed in percentage of the total applied voltage E

$$\text{linearity conformity} = \frac{\pm \Delta V_{\max.}}{E}$$

They are measured over 90 % of actual electrical travel (centered).

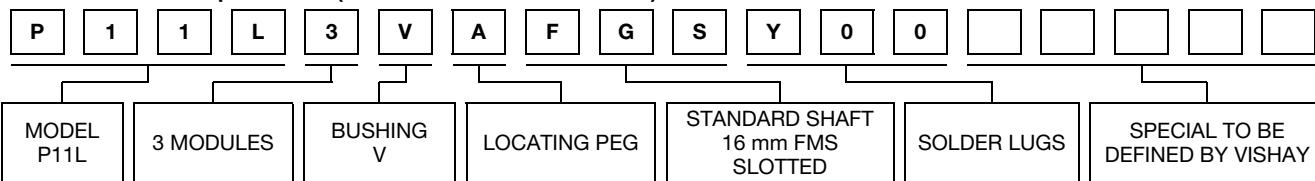
On request linearity can be guaranteed in linear taper.

ORDERING INFORMATION (First order only)

J123

J123	Independent linearity $\pm 3\%$ (linear law)
J145	Independent linearity $\pm 2\%$ (linear law)

For other request, contact us.

EXAMPLES OF FIRST ORDER INFORMATION
FIRST EXAMPLE: Triple module (switch is counted as a module)

ORDERING INFORMATION:

PART NUMBER	P11L3VAFGSY00.....	
SHAFT AND BUSHING	See drawing of special shaft attached	
MODULE NO. 1	503 M A	
MODULE NO. 2	103 M A	J123
MODULE NO. 3	503 M A	

PART NUMBER DESCRIPTION (used on some Vishay document or label, for information only)

P11L	3	V	A	FG	S	Y00			T1927		e3
MODEL	MODULES	BUSHING	LOCATING PEG	SHAFT	SHAFT STYLE	LEADS	VALUE	TOL.	TAPER	SPECIAL	LEAD (Pb)-FREE

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Mouser Electronics

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