

Overview

KEMET's PYR resistors are wire wound on a ceramic core and coated with high temperature silicone. The mounting brackets are made of stainless steel and connected by two point spotwelding. PYR resistors are for use in voltage balancing and/or discharge of electrolytic capacitors, are easy to mount and fit capacitor diameters 50 – 90 mm.

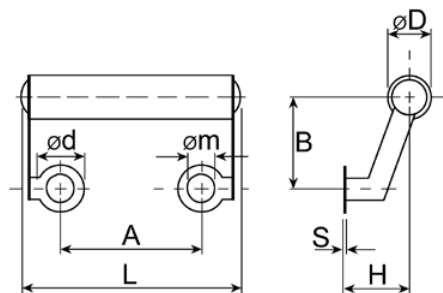
Applications

KEMET's PYR resistors can be used for voltage balancing of series connected electrolytic can-type capacitors and/or discharge purposes.

Performance Characteristics

Item	Specification
Standards	CECC 40201, MIL-R26E
Resistance Range	10 – 47 k Ω
Resistance Tolerance	+/- 5%
Rated Voltage	700 VDC acc. to CECC 40201-003
Temperature Range	-55 to +105°C

Dimensions PYR – Millimeters



Type	A	L	d	m	B	H	S	D	Weight
		± 1	± 2			± 1	± 1	Maximum	Approximate (g)
PYR 5008	22.0*	40	10.6	6.3	21	15	0.4	10	9
PYR 7511	32.0	50	10.6	6.3	21	15	0.4	10	11

* Brackets are adjustable up to $A = 28.5$

Discharge Resistor

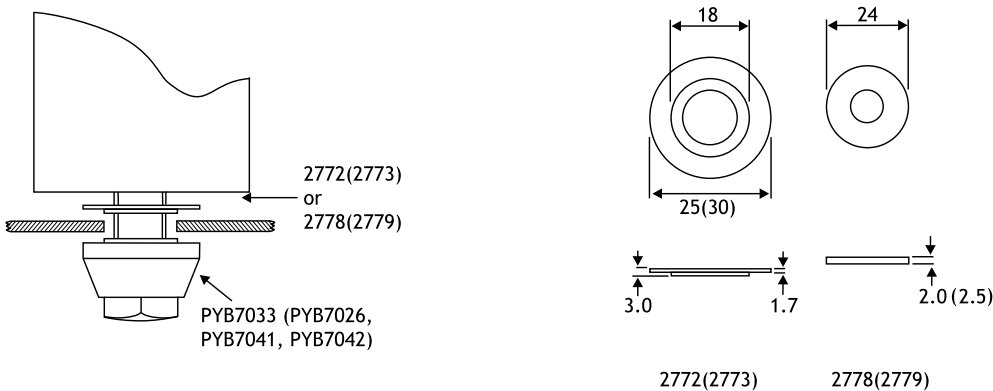
Part Number Table PYR					
Part Number Code	R (kΩ)*	P max (Ω) 40°C	P max (Ω) 85°C	P max (Ω) 105°C	Fits Capacitor Diameter
PYR 5008 / 47	47	10	8	7	50 – 65
PYR 7511 / 10	10	13	11	10	75 – 90
PYR 7511 / 18	18	13	11	10	75 – 90
PYR 7511 / 27	27	13	11	10	75 – 90
PYR 7511 / 47	47	13	11	10	75 – 90

* Other R values available upon request

Mounting Kits

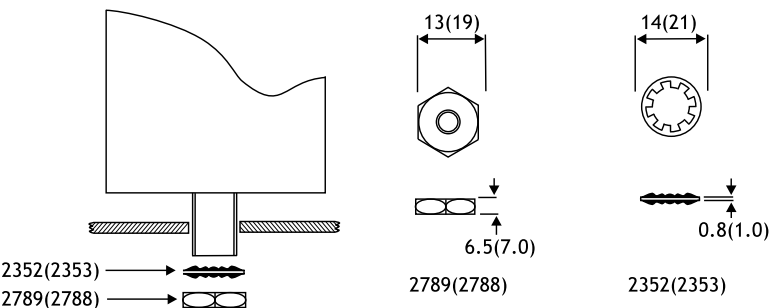
Insulated Version

M8 Stud (M12 Stud)



Non-Insulated Version

M8 Stud (M12 Stud)



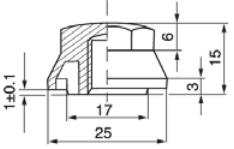
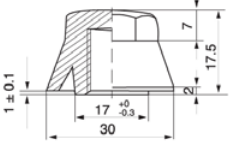
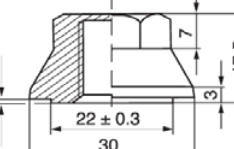
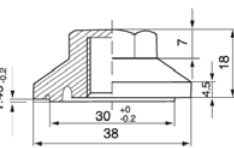
Dimensions in mm. All of the above accessories may be ordered individually using the part number shown or as kits using the kit part numbers shown in the Kit Contents and Ordering Information.

Kit Contents and Ordering Information

Standard Kits		Kit Order Number			
Part Code	Description	2740	2741	2782	2785
2352	Steel washer M8			•	
2353	Steel washer M12				•
2772	Stepped poly washer M8	•			
2773	Stepped poly washer M12		•		
2778	Plain poly washer M8	•			
2779	Plain poly washer M12		•		
2788	Steel nut M12				•
2789	Steel nut M8			•	
PYB 7033	Nylon nut M8	•			
PYB 7026	Nylon nut M12		•		
Kit Description		Insulated	Insulated	Non-Insulated	Non-Insulated
		M8	M12	M8	M12

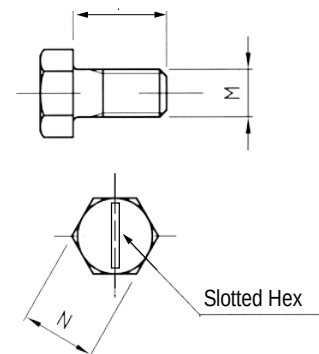
Special Kits		Kit Order Number				
Part Code	Description	2690	2691	2692	2693	2695
2352	Steel washer M8			•		
2353	Steel washer M12	•			•	
2772	Stepped poly washer M8		•	•		
2773	Stepped poly washer M12	•			•	•
2778	Plain poly washer M8		•	•		
2779	Plain poly washer M12				•	•
2788	Steel nut M12	•			•	•
2789	Steel nut M8		•	•		
PYB 7041	Nylon nut M12					
PYB 7042	Nylon nut M12					

Mounting Data for Accessories

Nylon Cap Nuts	Mounting Hole	Maximum Chassis Thickness	Width of Jaws	Creepage Distance	Test Voltage 50 – 60 Hz	Maximum Tightening Torque	Capacitor Diameter
	mm (Minimum)	(mm)	(mm)	(mm)	1 min (KVAC)	(NM)	(mm)
PYB 7033, M8 	Ø 17.5	5	17	4.5	2.5	3	Ø = 35
PYB 7026, M12 	Ø 17.5	5	19	2.5	2.5	8	Ø > 35
PYB 7041, M12 	Ø 22.5	5	19	5	2.5	8	Ø > 35
PYB 7042, M12 	Ø 30.5	5	19	9	4	8	Ø > 35

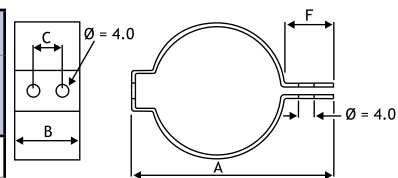
Steel Screws

Part Number	M	l (mm)	N (mm)	Maximum Tightening Torque (Nm)	Quantity per Bag
3895	M6 steel screw & shakeproof washer	10	10	4	10
3896	M5 steel screw & shakeproof washer	10	8	2	20
3897	M6 steel screw & shakeproof washer	10	8	2	50

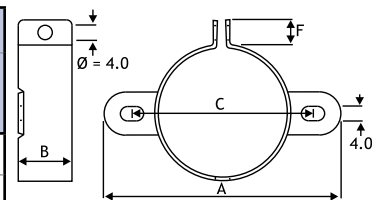


Clips – Millimeters (Material – Zinc Plated Steel)

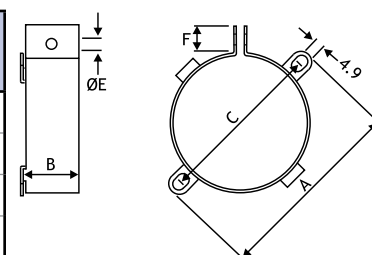
Horizontal Mounting					
Type	Can Diameter	A	B	C	F
H1	25.0	40.0	22.3	12.8	10.0
H2	35.0	52.0	22.3	12.8	10.0



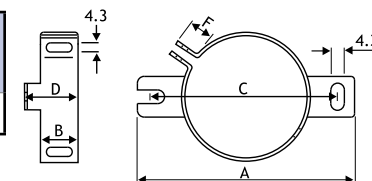
Vertical Mounting					
Type	Can Diameter	A	B	C	F
V2	25.0	49.0	19.0	37.0	10.0
V3	35.0	58.0	19.0	45.0	9.0
V9	40.0	65.0	19.0	52.4	9.5



Type	Can Diameter	A	B	C	E	F
V4	51.0	75.0	25.4	64.0	5.0	10.0
V6	45.0	69.5	17.4	58.0	4.0	10.0
V8	63.5	88.9	25.4	77.5	5.0	9.5
PYC6041	35	64	19	52	4.5	11.5



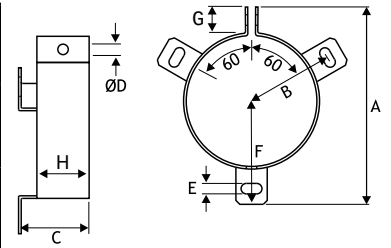
Type	Can Diameter	A	B	C	D	F
UTE2736	35.0	63.0	12.2	54.0	17.2	9.0



When using mounting clamps, care should be taken not to obscure any safety vent in the can. Delivered without bolts and nuts for mounting. PYC clips are for PEH169 and PEH200 capacitors.

Clips – Millimeters (Material – Zinc Plated Steel) cont'd

Type	Can Diameter	A	B	C	D	E	F	G	H
V10	65.0	90.0	40.0	30.0	5.0	4.5	-	10	20
V11	76.0	103.0	45.5	30.0	5.0	4.5	-	10	20
V90	90.0	116.0	53.5	30.0	5.0	4.5	-	10	20
UTE2737	50.0	75.5	33.5	27.0	4.3	4.3	39.5	10	20
UTE2738	65.0	88.5	39.0	27.0	4.3	4.3	45.0	10	20
UTE2739	72.0	97.0	44.0	28.0	4.3	4.3	50.0	10	20
PYC6042	50	78	32.5	30	5.5	4.5	39	12	19
PYC6043	65	90.5	38	36	5.5	4.5	44	12	25
PYC6044	75	100.5	43	36	5.5	4.5	49	12	25
PYC6045	90	115.5	50.5	36	5.5	4.5	56.5	12	25



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Other KEMET Resources

Tools	
Resource	Location
Configure A Part: CapEdge	http://capacitoredge.kemet.com
SPICE & FIT Software	http://www.kemet.com/spice
Search Our FAQs: KnowledgeEdge	http://www.kemet.com/keask
Electrolytic LifeCalculator	http://www.kemet.com:8080/elc

Product Information	
Resource	Location
Products	http://www.kemet.com/products
Technical Resources (Including Soldering Techniques)	http://www.kemet.com/technicalpapers
RoHS Statement	http://www.kemet.com/rohs
Quality Documents	http://www.kemet.com/qualitydocuments

Product Request	
Resource	Location
Sample Request	http://www.kemet.com/sample
Engineering Kit Request	http://www.kemet.com/kits

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