



Founded over 30 years ago in 1994, ETR Electronics Co., Ltd. is a world - renowned producer of film capacitors and chip LEDs. ETR factories are ISO9001 & 14000 certified while ETR products are approved by UL and VDE, with AC-use capacitors patented and DC-use capacitors covering a wide range of high frequencies and high voltages. With increasing globalization, ETR Electronics serves a fast growing market worldwide. Former clients include LEO and CDE (Cornell Dubilier Electronics). Current ETR clientele includes SONY, LG, National, Canon, APC, Bosch, B&D, Askey and HP.

TYPE:PPN

are constructed with polypropylene film dielectric aluminum foil as electrode, copper-ply wire leads and epoxy resin coating, in non-inductive type.

FEATURES:

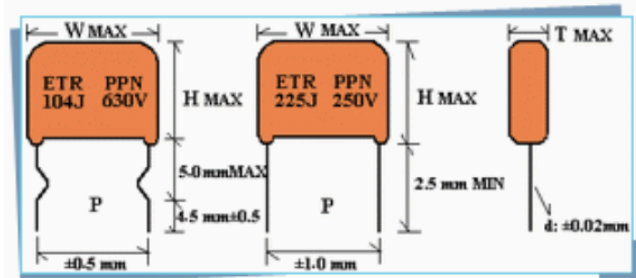
- Low dissipation factor and high insulation resistance.
- Electrode and lead are spot welded, equivalent series resistance(ESR)is minimized.
- High stability of capacitance and DF versus temperature and frequency.
- High moisture resistance.
- Good solderability.
- Available on tape and reel for automatic insertion.

APPLICATIONS:

They are ideal for telecommunication equipments, data processing equipments, industrial instruments, automatic control systems and other general electronic equipments.

SPECIFICATION:

- | | |
|--------------------------------|--------------------------|
| 1. Operating temperature | : -40°C ~ +85°C |
| 2. Capacitance range | : .001uF ~ .47uF |
| 3. Capacitance tolerance | : J=±5%, K=±10%, M=±20%. |
| 4. Rated voltage (RV) | : 100, 250, 400, 630VDC. |
| 5. Dissipation factor (DF) | : .1% max at 1KHz 25°C |
| 6. Testing voltage (TV) | : 200% of RV for 60sec |
| 7. Insulation resistance (IR) | : C≤.1uF, IR≥30000MΩ |
| (measured at RV or 500Vdc | C>.1uF, IR≥3000MΩ. uF |
| whichever is smaller, at 25°C) | |



DIMENSIONS:
 $P \leq 10\text{mm}$ $d\phi = 0.6$, $P > 10\text{mm}$ $d\phi = 0.8$

	RV	100VDC				250VDC				400VDC				630VDC				800VDC			
COD	size	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P
	cap.	max	max	max		max	max	max		max	max	max		max	max	max		max	max	max	
102	.001	10.5	8.5	5.5	7.5	10.5	8.5	5.5	7.5	15.0	11.0	6.0	10.0	15.0	11.0	6.0	10.0	15.0	12.0	7.0	10.0
152	.0015	10.5	9.0	6.0	7.5	10.5	9.0	6.0	7.5	15.0	11.0	6.0	10.0	15.0	11.0	6.0	10.0	15.0	12.5	7.0	10.0
222	.0022	10.5	9.0	6.0	7.5	10.5	9.0	6.0	7.5	15.0	11.0	6.0	10.0	15.0	11.0	6.0	10.0	15.0	13.5	7.5	10.0
332	.0033	10.5	9.0	6.0	7.5	10.5	9.0	6.0	7.5	15.0	11.0	6.0	10.0	15.0	11.0	6.0	10.0	15.0	14.5	8.5	10.0
472	.0047	10.5	9.0	6.0	7.5	15.0	11.0	6.0	10.0	15.0	11.0	6.0	10.0	16.0	13.0	7.5	10.0	15.0	16.0	9.5	10.0
682	.0068	10.5	9.0	6.0	7.5	15.0	11.0	6.0	10.0	15.5	11.0	6.0	10.0	17.0	14.5	8.5	10.0	15.0	18.0	11.0	10.0
103	.010	10.5	9.0	6.0	7.5	15.5	12.0	6.0	10.0	16.5	13.0	7.5	10.0	17.0	15.5	9.0	10.0	20.0	17.0	8.0	15.0
153	.015	14.5	10.0	5.5	10.0	15.5	13.0	7.0	10.0	17.0	14.5	8.5	10.0	21.0	14.0	7.5	15.0	20.0	18.0	9.0	15.0
223	.022	14.5	11.0	6.5	10.0	16.0	14.0	8.5	10.0	21.0	13.5	8.0	15.0	21.5	16.0	9.0	15.0	20.0	20.0	11.0	15.0
333	.033	16.5	11.0	6.5	12.5	21.0	14.0	7.5	15.0	21.0	15.5	8.5	15.0	22.0	18.0	10.0	15.0	20.0	22.0	13.0	15.0
473	.047	16.5	12.5	7.5	12.5	21.5	15.0	9.0	15.0	22.0	16.5	10.0	15.0	22.0	20.5	12.0	15.0	20.0	25.0	15.0	15.0
683	.068	16.5	14.5	9.0	12.5	21.5	16.5	10.0	15.0	27.0	18.0	10.0	20.0	27.0	20.5	12.0	20.0	3.0	23.0	14.5	25.0
104	.10	20.0	14.5	9.0	15.0	27.0	17.5	10.0	20.0	27.0	20.0	11.5	20.0	33.0	20.5	12.0	25.0	32.0	30.0	17.0	25.0
154	.15	20.0	16.5	9.5	15.0	27.0	20.0	12.0	20.0	33.0	21.5	11.0	25.0	33.0	24.5	13.0	25.0				
224	.22	26.0	20.0	9.0	20.0	33.0	22.0	12.0	25.0	33.0	23.5	13.0	25.0	33.0	28.5	16.0	25.0				
334	.33	26.0	22.0	10.5	20.0	33.0	24.0	13.0	25.0	33.0	28.0	15.5	25.0								
474	.47	32.0	19.0	11.5	20.0	33.0	27.0	16.0	25.0	33.0	31.0	18.5	25.0								

Size info subject to change without notice.

Actual Dimensions of ETR PPN Film Capacitors										
Inventory of JustRadios Capacitors & Resistors										
(Authorized ETR Capacitor Dealer)										
Part #	Volts DC	uF Size	Tolerance	Color	Body	Body	Body	Pitch	Lead	Lead
					Width	Hight	Thickness		Length	Diameter
PPN501K630V	630 Volts	.0005uF	10%	Brown	9	7	5	7	28	6.5
PPN122K630V	630 Volts	.0012uF	10%	Brown	9	7	4.5	7	28	6.5
PPN182K630V	630 Volts	.0018uF	10%	Brown	9.5	7	4.5	7.5	28	6.5
PPN202K630V	630 Volts	.002uF	10%	Brown	12.5	8	5.5	10.5	28	6.5
PPN502K630V	630 Volts	.005uF	10%	Brown	12.5	10	6	10.5	28	6.5
PPN682K630V	630 Volts	.0068uF	10%	Brown	13	11	7	10.5	28	6.5
PPN822K630V	630 Volts	.0082uF	10%	Brown	19	13	7	16	27	6.5
All of the above body measurements, pitch and lead lengths are in mm and are +/- 1mm).										
The above prepared by D. Cantelon of JustRadios (April 2025)										

www.justradios.com

