

# Supreme Accuracy Current Transformer

## Dimension

PCB Mountable type

(unit : mm/inch)

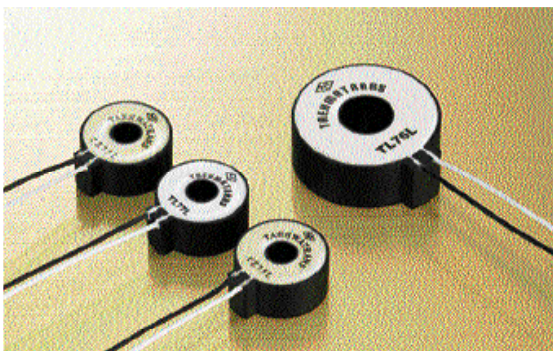
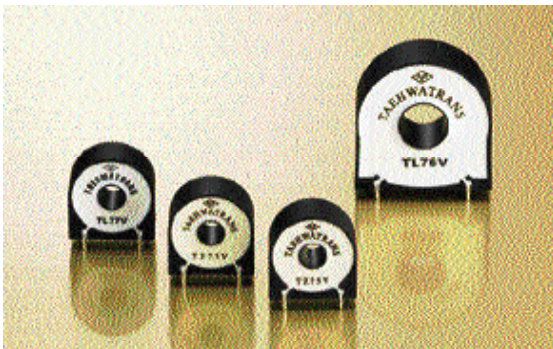
Model No	A(min)	B(max)	C(max)	D(max)	E(±0.3)	F(±0.3)	G(±0.5)	H(±0.3)
TZ77V	6.8 0.268	25.0 0.984	11.0 0.433	23.5 0.925	15.1 0.594	19.1 0.752	3.0 0.118	9.1 0.358
TZ71V	8.9 0.350	27.5 1.083	17.0 0.670	25.3 0.996	15.1 0.594	19.1 0.752	3.0 0.118	15.1 0.594
TZ84V TZ85V	12.9 0.508	39.3 1.547	14.0 0.551	38.0 1.496	25.2 0.992	32.8 1.291	3.0 0.118	12.1 0.476

Wire lead type

(unit : mm/inch)

Model No	A(min)	B(max)	C(max)	D(max)	E(max)	F(±3.0)	G(±1.0)
TZ77L	6.9 0.272	23.6 0.930	11.0 0.433	26.8 1.055	7.1 0.280	71.0 2.795	3.0 0.118
TZ71L	8.9 0.350	25.0 0.984	17.0 0.670	28.4 1.118	7.7 0.303	64.0 0.520	3.0 0.118
TZ84L TZ85L	12.9 0.508	37.5 1.476	14.0 0.551	41.3 1.626	10.3 0.406	68.0 2.677	3.0 0.118

## Excellent Accuracy for 1.0 Class Meter Grade



### Standard Accuracy : Class 0.5

#### Application

- 1.0class meters in MVCT & LVCT for industrial complex & commercial watt hour meters
- 1.0class power meters
- Good accuracy power sensor & instruments

#### Features

- Far exceeding the linearity within 0.2% through the whole range
- Good stability in the lowest miniature current level
- Perfect external magnetic immunity
- Close to zero tolerance on the temperature changes
- High potential voltage of 2.5KV-4.0KV/min
- RoHS compliant

**Model & Specification**

Standard Accuracy : Class 0.5

(f=50Hz, Rb=1, PF=1.0, unit : percent / minute)

Model No	Current Ratio	Im	DCR (±6%)	Rn 0.25A	Pn 0.25A	Rn 5A	Pn 5A	Rnv 0.25-5A	Pnv 0.25-5A
TZ68V	1600 : 1	23A	92	±0.73%	36´	±0.68%	16´	0.17%	25´
TZ69V TZ69L	2500 : 1	52A	71	±0.31%	16´	±0.33%	12´	0.03%	5´
TZ73V TZ73L	2500 : 1	50A	104	±0.29%	16´	±0.30%	10.5´	0.02%	5.5´
TZ75V TZ75L	2500 : 1	68A	129	±0.19%	13´	±0.18%	9.5´	0.04%	5.5´

Standard Accuracy : Class 0.5

(f=50Hz, Rb=1, PF=1.0, unit : percent / minute)

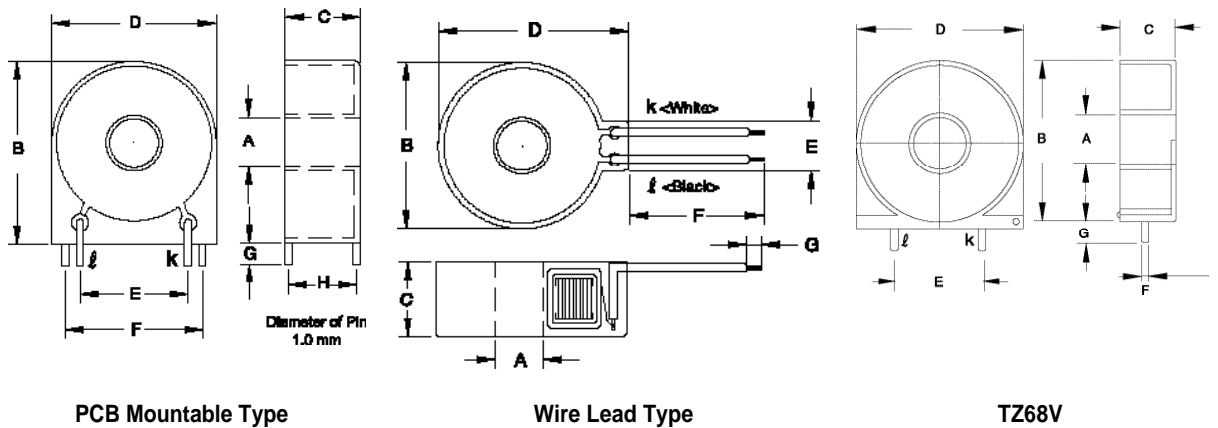
Model No	Current Ratio	Im	DCR (±6%)	Rn 0.25A	Pn 0.25A	Rn 5A	Pn 5A	Rnv 0.25-5A	Pnv 0.25-5A
TL77V TL77L	2500 : 1	135A	128	±0.1%	11´	±0.1%	8´	0.2%	3´
TL71V TL71L	2500 : 1	180A	135	±0.1%	7´	±0.1%	5´	0.2%	2´
TL76V TL76L	2500 : 1	450A	50	±0.1%	10´	±0.1%	9´	0.2%	1´

**Definition of Terms**

Im : Max rated current DCR : DC Resistance of secondary winding Rn : Nominal ratio error at the mentioned primary current Pn : Nominal phase error at the mentioned primary current Rnv : Nominal variation of ratio error at the mentioned primary current range Pnv : Nominal variation of phase error at the mentioned primary current range

Remark : The data of maximum current, ratio and phase error on 60Hz testing would be around 20% better than that of above 50Hz

**Drawing**



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(unit : mm/inch)

Model No	A(min)	B(max)	C(max)	D(max)	E(±0.3)	F(±0.3)	G(±0.5)	H(±0.3)
TZ68V	5.7 0.224	19.2 0.756	8.2 0.323	19.2 0.756	12.7 0.500	0.8±0.05 0.031	4.9±0.1 0.193	
TZ69V TZ73V TZ75V TL77V	6.8 0.268	25.0 0.984	11.0 0.433	23.5 0.925	15.1 0.594	19.1 0.752	3.0 0.118	9.1 0.358
TL71V	8.9 0.350	27.5 1.083	17.0 0.670	25.3 0.996	15.1 0.594	19.1 0.752	3.0 0.118	15.1 0.594
TL76V	12.9 0.508	39.3 1.547	14.0 0.551	38.0 1.496	25.2 0.992	32.8 1.291	3.0 0.118	12.1 0.476

Wire lead type

(unit : mm/inch)

Model No	A(min)	B(max)	C(max)	D(max)	E(max)	F(±3.0)	G(±1.0)
TZ69L TZ73L TZ75L TL77L	6.9 0.272	23.6 0.930	11.0 0.433	26.8 1.055	7.1 0.280	71.0 2.795	3.0 0.118
TL71L	8.9 0.350	24.8 0.976	17.0 0.670	28.4 1.118	7.6 0.299	64.0 0.520	3.0 0.118
TL76L	12.9 0.508	37.5 1.476	14.0 0.551	41.3 1.626	10.3 0.406	68.0 2.677	3.0 0.118

## Isolation Current Transformer

Standard Accuracy : Class 0.5

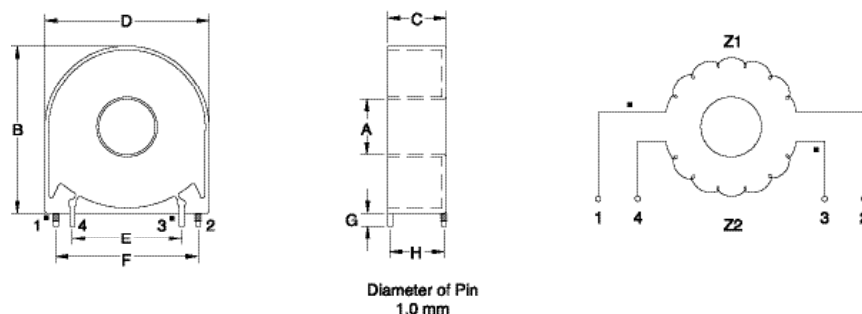
Application : Voltage Measurement

### Model & Specification

(f=50Hz, Rb=1, PF=1.0, unit: percent / minute)

Model No	Current Ratio	DCR (±6%)	Rn 0.25A	Pn 0.25A	Rn 5A	Pn 5A	Rnv 0.25-5A	Pnv 0.25-5A	Phase Shift at 1V
TZ11V	1 : 1	100	±0.17%	28'	±0.23%	11'	0.1%	18'	11'

### Drawing



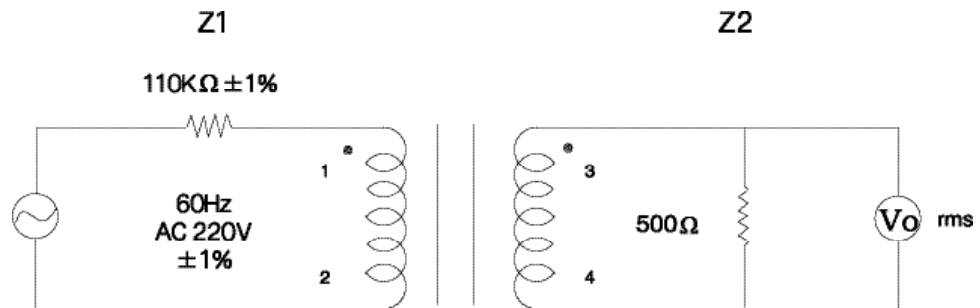
Dimension

PCB Mountable type

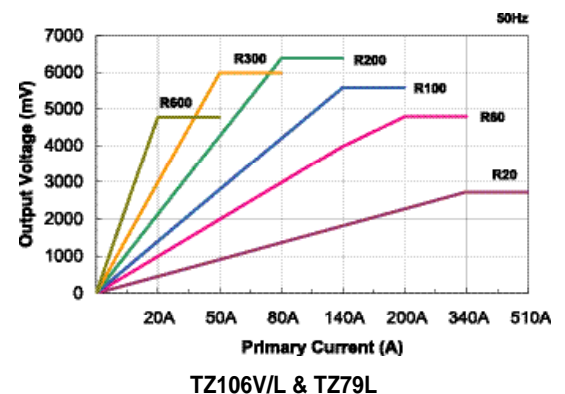
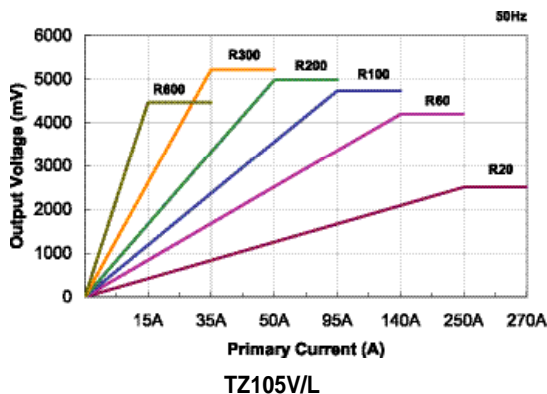
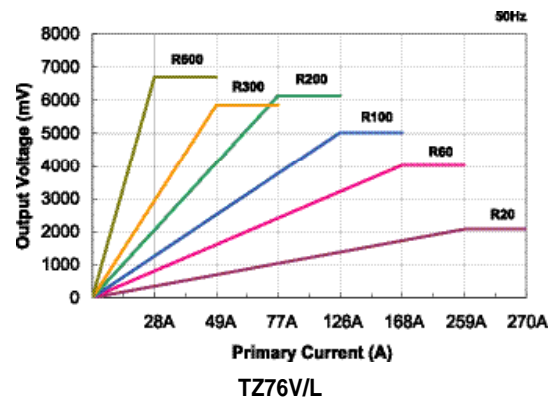
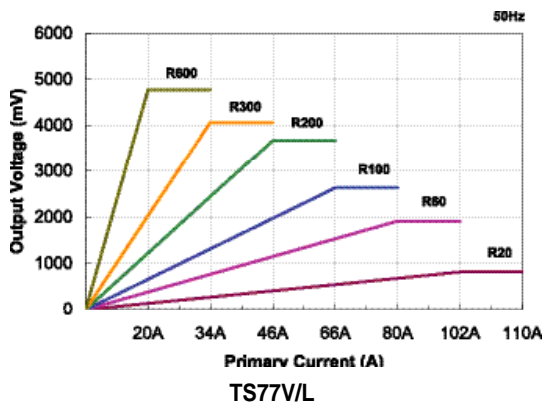
(unit : mm/inch)

Model No	A(min)	B(max)	C(max)	D(max)	E(±0.3)	F(±0.3)	G(±0.5)	H(±0.3)	DCR
TZ111V	6.9 0.272	25.0 0.984	11.0 0.433	24.5 0.965	15.1 0.594	19.1 0.752	3.0 0.118	9.2 0.362	94-106

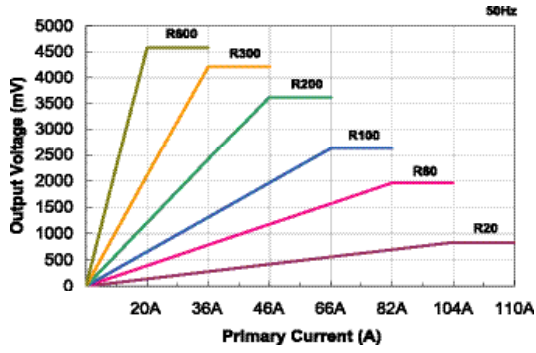
Measuring Circuitry



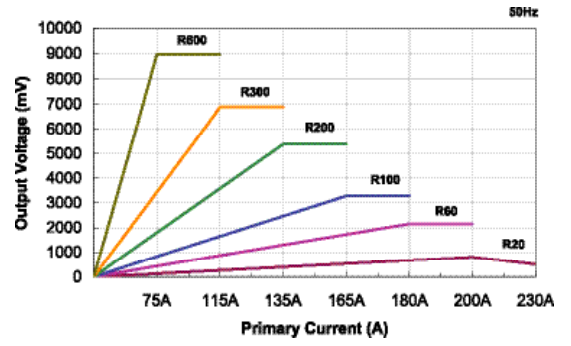
Secondary Burden & Output Voltage Graph



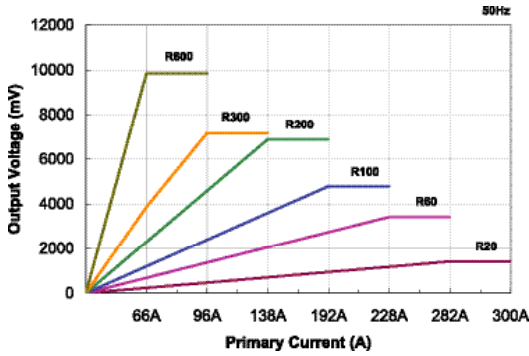
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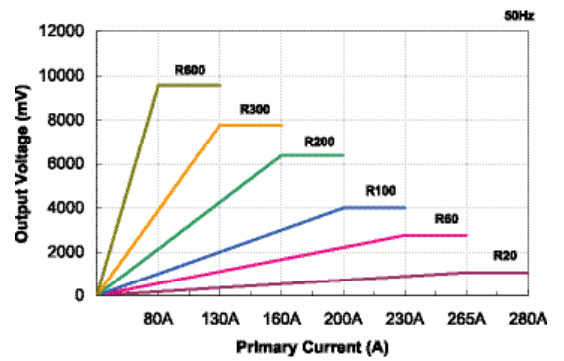
TN77V/L



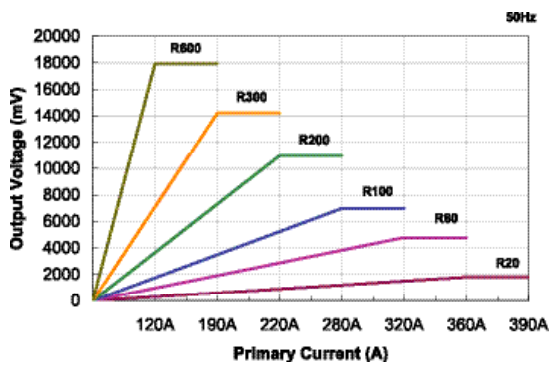
TZ31L



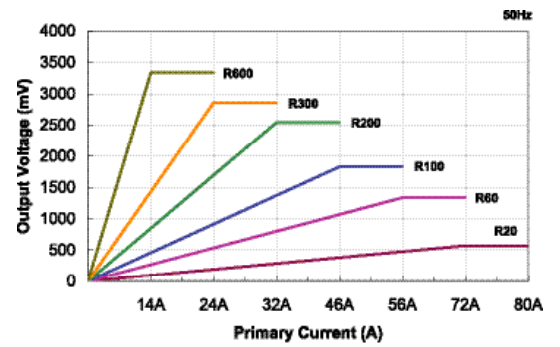
TZ87L



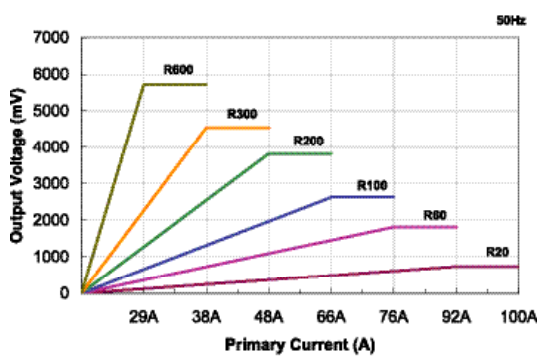
TZ96L



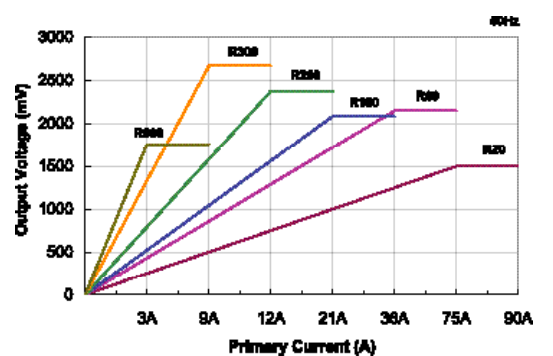
TZ110L



TZ77V/L



TZ71V/L



TZ84V/L

