

For types:

High Voltage Focus Potentiometers

PHF301



Application:

The product is designed for Flyback Transformers of Color TV or Monitor.

Mechanical Characteristics and Requirements:

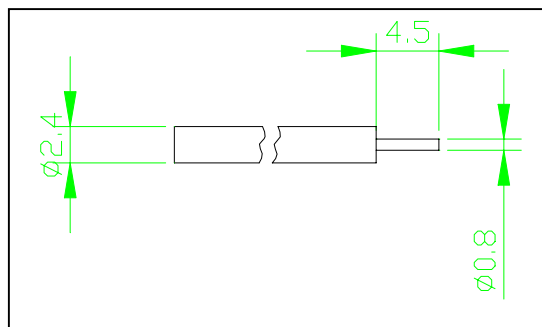
1. Outline Dimensions:

See attached Fig 1.

2. Mechanical Parameters:

Parameters		MIN	MAX	UNIT
Rotation Angles	Focus(b11,b12)			deg.
	Screen(b2)			deg.
Starting torque			30	mNm
Operating torque		3	30	mNm
Stop torque			300	mNm
Mechanical life		50		cycles
Insertion force	Earth wire(c)		25	N
	Dyn input(Dn)		25	N
	screen wire(b2)		25	N
Extraction force	Earth wire(c)	50		N
	Dyn input(Dn)	50		N
	screen wire(b2)	50		N
Axial Thrust on the shafts			150	N
Weight		75	(with wire)	gram

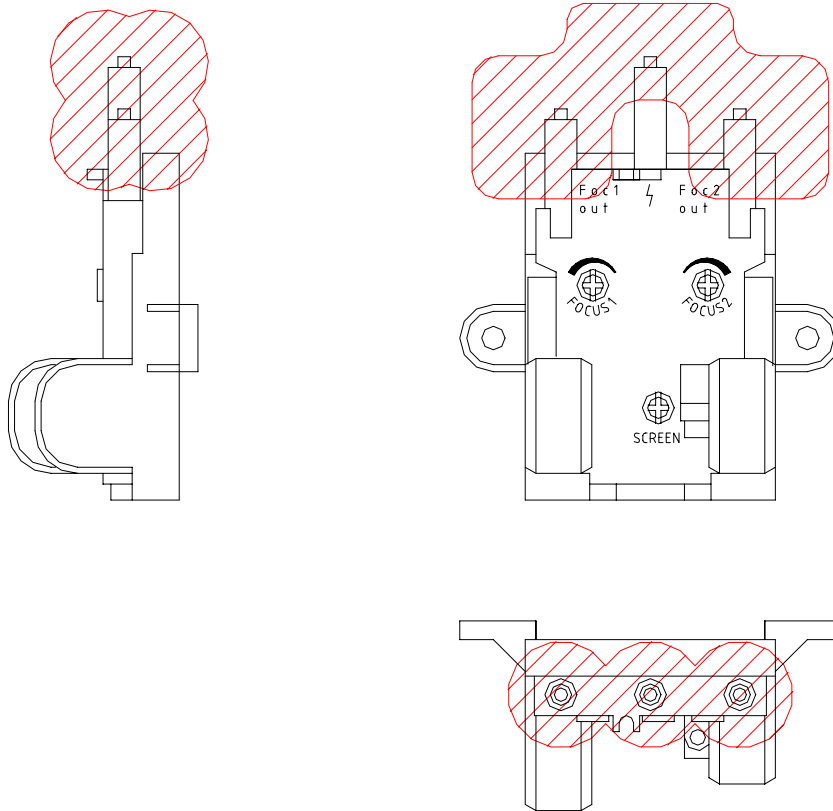
3. Dimensions of connecting wire core.



Dimensions in mm.

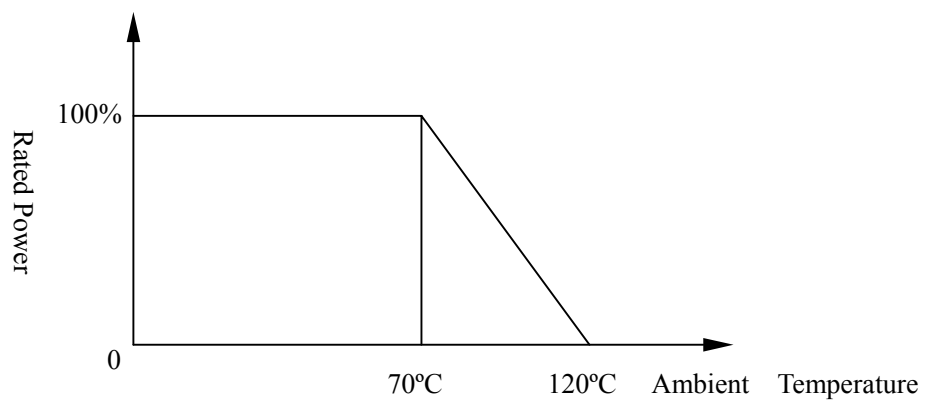
Safety Requirements

When the unit works, high voltage will be loaded, and an area of 10mm around the Focus pack should be free from the metal and other conductive parts. See fig below.



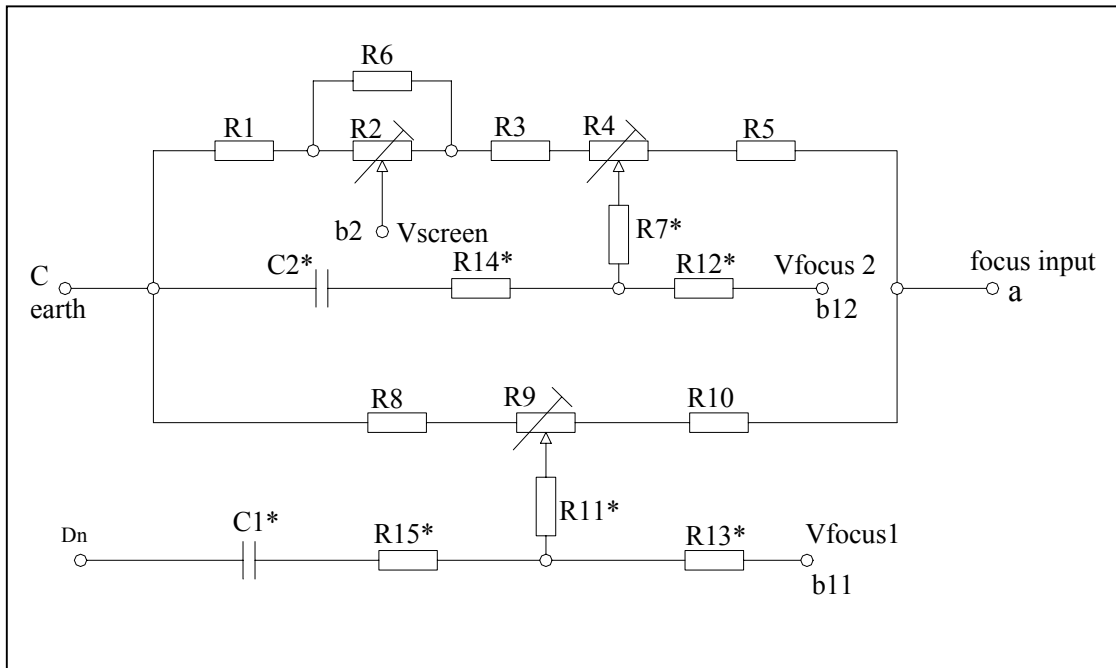
Electrical Characteristics and Requirements

1. Derating Curve

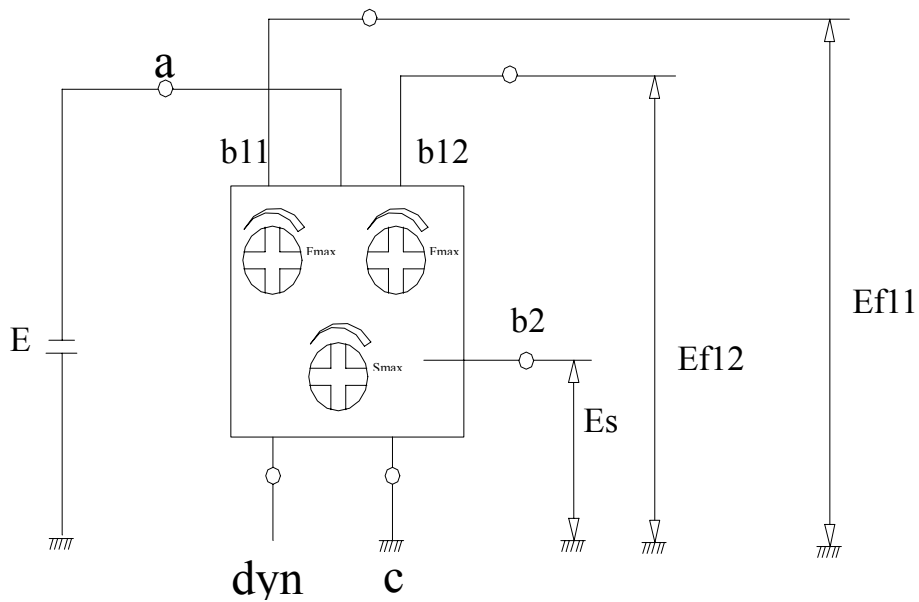


2.Focus voltage ratio and Screen voltage ratio

2.1 Circuit diagram

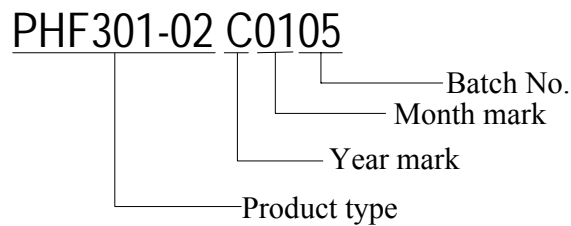


2.2 Focus voltage ratio and Screen voltage ratio will be measured as shown below.



## 2.3 Electrical data

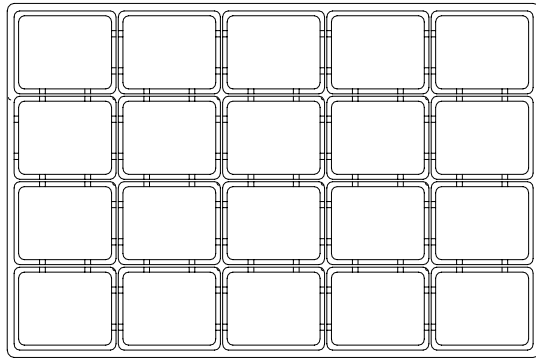
TYPE	Resistance (MΩ)	Voltage (kV)	Rated Power(W)	Voltage Ratio (%)		Voltage Ratio (%)	
				Fmax	Fmin	Smax	Smin
PHF301-01	80±15%	14.2	2.97	66-74	40-48	8.4-14.8	0.5-1.3
PHF301-02	100±15%	11	1.42	98.2-99	61-70	5.5-9.5	0.2-0.8

MarkingList of Materials

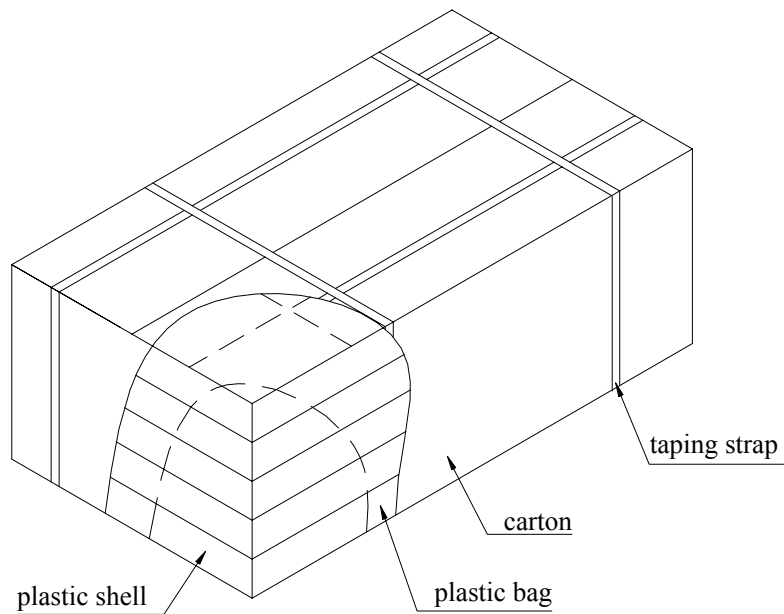
NAME OF PART	MATERIAL	TYPE	MANUFACTURER	FLAME CLASS	UL FILE NUMBER
Case	Polycarbonate	Lexan 500 R	General Electric	UL-94-VO	E45329 E121562
<u>Bottom</u>	Polycarbonate	Lexan 500 R	General Electric	UL-94-VO	E45329 E121562
Shafts	Modified PPO	PX9406-701	General Electric	UL-94-VO	E45587
Rubber spring	Silicone rubber		Xi'an JingGong (China)		
Vacuum grease	Silicone grease	7102	Chongqing YiPing (China)		
Glue	Silicone rubber	TSE392W	General Electric	LOI 31%	
Potting Resin	Epoxy Resin	9050A/ 9050B	WELLS FINE CHEMICAL	UL-94-VO	E105888

Packaging

1. The unit will be packed in plastic shells of 20 pcs each, 5 shells are put in one plastic bag in one carton.(100pcs in one carton) The carton will be bound tightly with taping straps. See drawing below:



Plastic shell

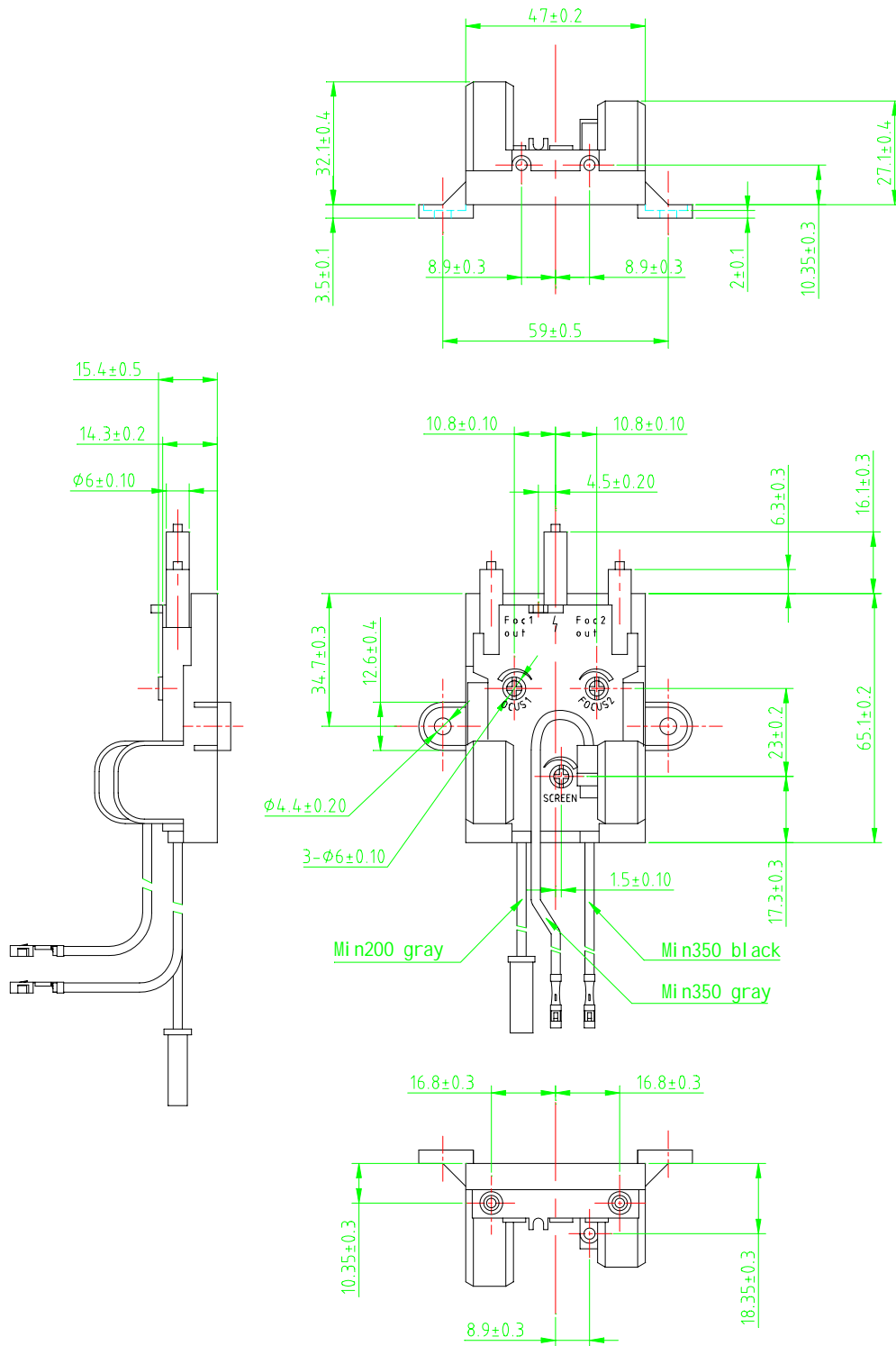


2. Package dimensions and weight:

Carton Dimensions (mm)			Weight (Kg)	
L	W	H	Net	Gross
500	300	210	7.5	9

Fig 1: Outline Drawing

PHF301



\*All dimensions are in mm and NTS.