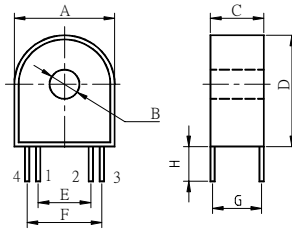
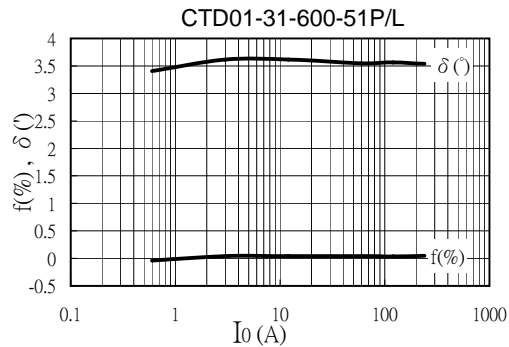


## CTD01-31 Series



Part No.	Primary Current range			Error Tolerances		Values at output				Mechanical Dimension							
	$I_0$ (A)	$I_{max}$ (A)	$\hat{I}_{max}$ (A)	$\delta$ (')	$f$ (%)	$R_L$ ( $\Omega$ )	DCR( $\Omega$ )	L(mH)	$V_{out}$ (V)	A(max)	B(max)	C(max)	D(max)	E(max)	F(max)	G(max)	H( $\pm 1$ )
	mm / inch																
CTD01-31-600-51P	0.5~60	255	70	3.543	0.041	12.5	53.8	2.81	0.3	31.50	9.20	14.40	31.60	20.00	24.00	10.30	6.00
CTD01-31-600-51L	0.5~60	255	70	3.543	0.041	12.5	53.8	2.81	0.3	1.24	0.36	0.57	1.24	0.79	0.95	0.41	0.24

### Typical characteristics for Ratio error and Phase shift at room temperature



#### Remark:

1. Frequency band :50Hz~60Hz.
2. Operating temperature: -25 $^\circ$ C~80 $^\circ$ C.
3. All current ,voltage refer to rms value.
4. RoHS compliant.
5. Hi-Pot: 2500V<sub>RMS</sub>/1min between windings.
6. Product parts meet UL requirements.
7. Product for direct connection with DC-Immune in accordance with IEC 61036.

#### Definition:

$f$ (%) : Ratio error.

$\delta$ ( ' ) : Phase shift.

$I_0$  : Input current.

$V_{out}$  : Output Voltage.

$R_L$  : Loaded Resistances.

DCR: Secondary Winding DC Resistance.

$I_{max}$ : Max. detecting current which remains linearity.

$\hat{I}_{max}$  : Max. half rectified DC amplitude w/o saturation for class-1-counters IEC 61036.IE.,  $f(I_{max}) < 3\%$