

Customer Name		Date Of Issue	31.07.2023
Description	Mini-Precision Current Transformer	Sample Quantity	
Current	40A/20mA	Customer Dwg. No.	
Part No.	HY54-2-755FQ54	Sample No.	8327N

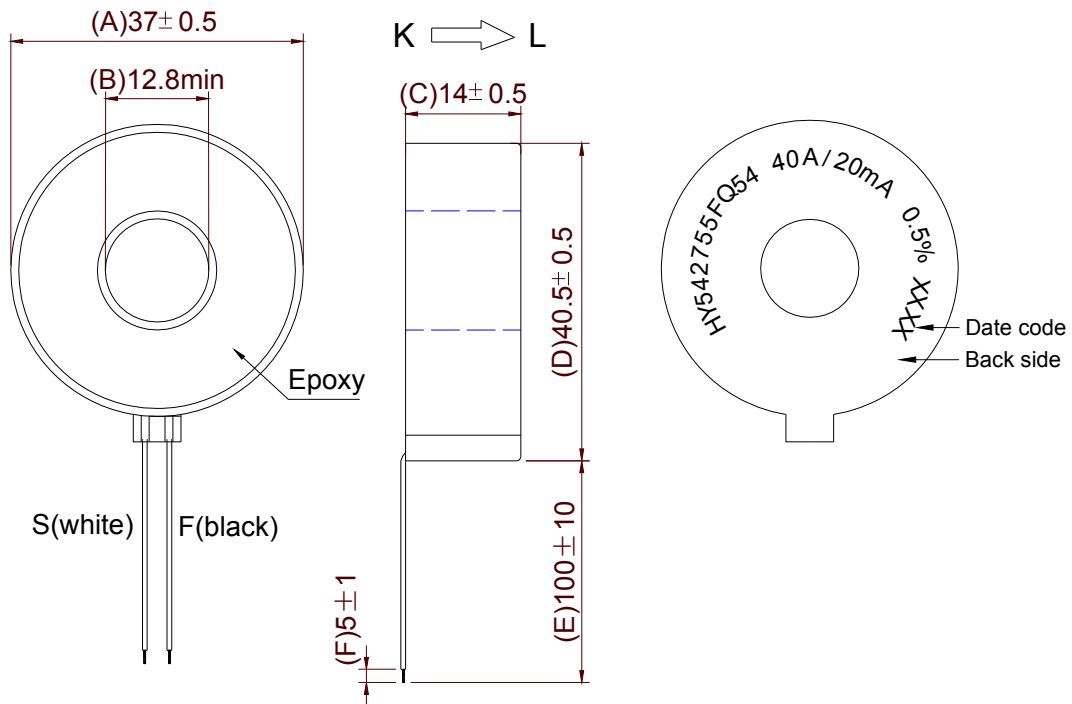
CUSTOMER APPROVED

Approved by	Checked by	Acknowledged by



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Mechanical Dimensions in mm



Test Circuit:

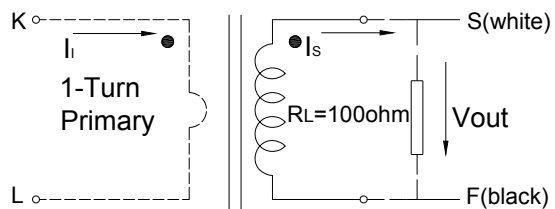


Photo:



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Electrical Specifications(@50Hz)

Primary Current(Amp.) 50Hz/60Hz	40A(0.08-48A max.)
Turns ratio	Np:Ns=1:2000
Current Ratio	40A/20mA
D.C.Resistance at 20°C (Ω)	95max
Accuracy* @RL $\leq$ 100 Ω	0.5%
Operating Temperature	-40~80°C
Storage Temperature	-45~80°C
Dielectric Withstanding Voltage(Hi-pot)	4KVrms/1mA/1min
Insulation Resistance	DC500V/100M Ω min
Note	Insulated plastic case recognized according to UL 94-V0.

*Accuracy meets IEC/EN61869-2 & IEEE/ANSI C57.13.

Mechanical Specifications

CUP	E202G15
Encapsulant	epoxy
Output terminal	UL1007 26AWG PVC wire(white&black) 80°C 300V
Approx.Weight	50g

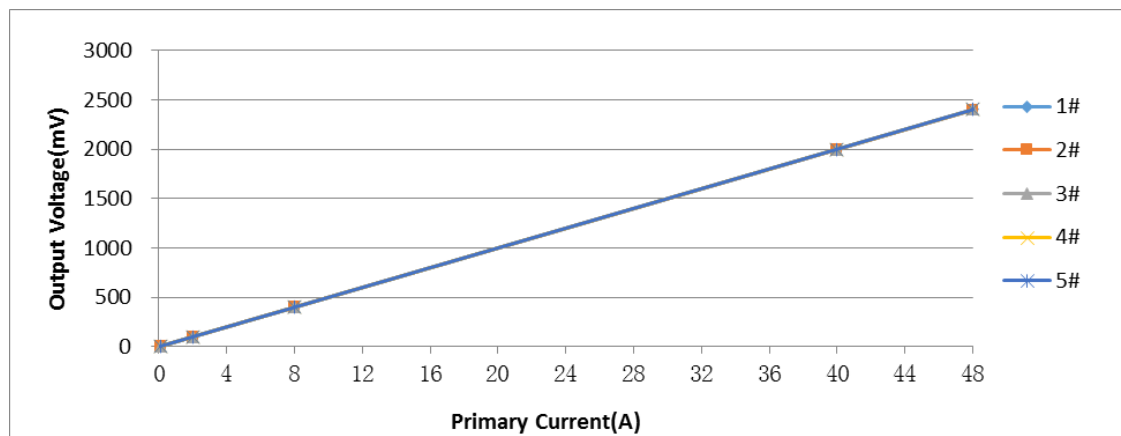
Safety Standards

CE	EN 61869-6:2016 (LVD) EN 61326-1:2013 (EMC)
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Measured Result($T_A=25^{\circ}\text{C}$ @50Hz): $R_L=100$

Ω	Current(A)	0.08	2	8	40	48	DCR(Ω)
SPEC	Vout(mV)	4	100	400	2000	2400	95max.
		$\pm 3.0\%$	$\pm 1.5\%$	$\pm 0.75\%$	$\pm 0.5\%$	$\pm 0.5\%$	
		3.88	98.50	397.00	1990.00	2388.00	
		4.12	101.50	403.00	2010.00	2412.00	
1#	Vout(mV)	4.062	99.81	399.5	2000.1	2403.3	79.1
2#	Vout(mV)	4.079	99.67	399.5	1999.5	2399.3	78.3
3#	Vout(mV)	4.059	99.83	399.6	2000.2	2401.2	78.7
4#	Vout(mV)	4.056	99.88	399.9	2001.2	2401.8	78.3
5#	Vout(mV)	4.019	99.89	399.8	2001.9	2402.3	78.6
AVE	Vout(mV)	4.055	99.82	399.7	2000.6	2401.6	78.6
MAX	Vout(mV)	4.079	99.89	399.9	2001.9	2403.3	79.1
MIN	Vout(mV)	4.019	99.67	399.5	1999.5	2399.3	78.3

Output curve:


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Material List

No.	ITEM	Part No.	UL File No.	CCN	MATERIAL	NOTE
1	CORE	CRTR0312AATC0	/	/	1K107	
2	HOUSING	HSCT0405DG00	E107536	QMFZ2/8	E202G15	
3	CASE	CACT0335DG00	E107536	QMFZ2/8	E202G15	
4	WIRE	WR015NGS2U01	E201757	OBMW2	UEWN/U	
5	EPOXY	CHEP3300LD00 CHEP3300LD01	E218090	QMFZ2/8	3300A 3300B	Select anyone
	EPOXY	CHEP9002HL00 CHEP9002HL01	E222812	QMFZ2/8	9002GA/B	
6	LEAD WIRE	LD260110WPJS0 LD260110BPJS0	/	AVLV2/8	UL1007 26 AWG	80°C 300V
7	SOLDER	CHSB0001XD01	/	/	Sn-0.3Ag-0.7Cu	



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