Attn:				
Product name		TDK Mode	I No.	
Auto Focus Voice Co	oil Motor		TVF-810.	IKD
Notes:			xO	
	Jen			
	Sales departm	nent	Design depar	tment Con. 1 PIC
	Sales departm	nent PIC	Design depar	tment Con. PIC

	2	Specifications Revis	se History	
P	roduct name	WEB CAM Auto Focus Voice	Coil Motor	
Т	DK Model NO.	TVF-8101KD		
_				
Present Sp	ecification	Revised Specifications	Revised Reasons	Dat
TVF-810	1KD(00)		Initial release	2021.0
Departmen	t in Charge	Record Date	Specifications No.	
r a anon	8-		SF CONTOUROND 1.01	

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1.Application Range These specifications specify general specifications and performance of Actuator of Mobile Camera Module \circ

2.Description

Our part No. in this specifications

T D K No. TVF-8101KD

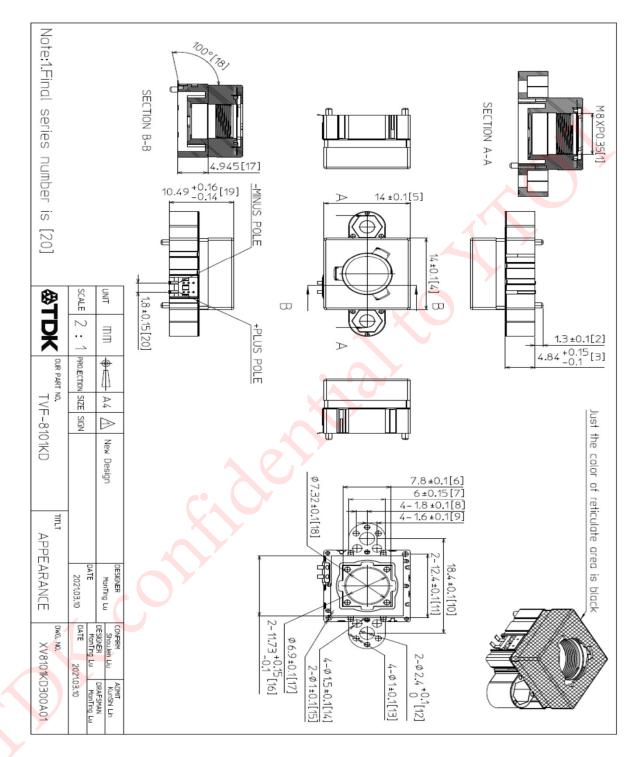
3.Related Specifications

All parts including glue and solder of TDK VCM-TVF-8101KD fit into RoHS .

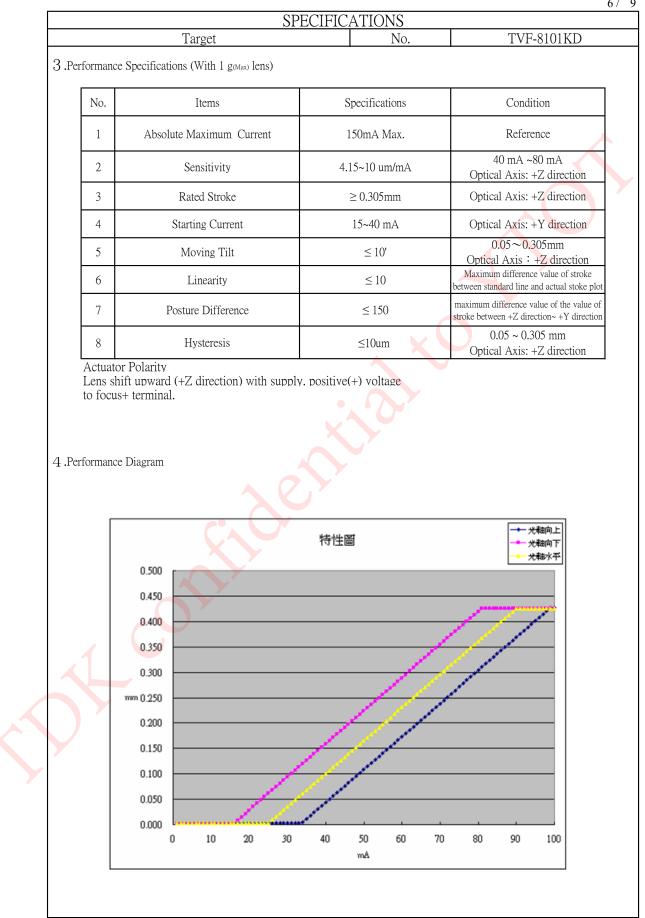
4.Contents

Items	Attached Information	Page
1.Appearance and Dimensions	Appearance Drawing XV8101KD300A01	4
2.Applications, General Specifications		5
3.Performance Specifications		6
4. Diagrams		6
5.Reliability Specifications		7
6. Packing Specifications	7,7	8-9

Department in Charge	Record Date	Specifications No.
Sensor Actuator (B538)	2021.03.10	0
	TDK TAIWAN CORP. VCM Project	



			CIFICATIONS
		Target	No. TVF-8101KD
lica	ations		
Aj)	Thes	m Range e specifications specify general specification b-focus VCM.	ns and performance of
)			rement ffter agreement between both parties \circ
)		y suspicion or inconvenience occurs in the	contents of this specifications,
)	If th	nall be resolved by the two parties. ere are no comments about Auto-Focus VCI	M, these specifications are applied
)		Auto-Focus camera module. Idard of Sampling	
	(I)	Appearance SPEC. follow Level II AQL 0.0	65% sampling
		Performance SPEC. follow n=5,C(0,1)	
))		cal Axis of Lens is the direction of gravity dard evaluation environment	7 and Actuator should move Upward
		errors occur in evaluation, the following ra	
Pr		Temperature $1.5\sim3.5^\circ\mathrm{C}$; Humidity formation	30~80% R.H.
	No.	Items	Specifications
	1	Lens Module Diameter	M8.0XP0.35 (Diameter)
	2	Working Direction	Along the Optical Axis
	3	Operation Environ.	-30~70°C 10~90%RH
	4	Storage Environ.	At ambient temperature and humidity.(Within six months after product delivery)
	5	Particle	≤ 50 um
	6	Torque (Thread gauge)	10 ~ 150 gf-cm
	7	Definition of Direction	
]	l Specifi		Λ
	No.	Items	Specifications
	1	Rated Load Current	80mA Max. (Including 1 g _(Max) lens)
	2	Stroke>0.305mm (Horizontal) Total Stroke (Vertical)	≥ 0.305mm
	3	DC Resistance of Coil	28±3Ω
	4	Dimensions	14mm*14mm*10.5mm (refer to Figure Diagram)



TDK TAIWAN CORP. VCM Project

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Torrat No. TVE 9101VD	SPECIFICATIONS			
I larget No. I VF-6101KD	larget	No.		

5 • Reliability Specifications

To judge the result of reliability by checking the samples fit into <General Specifications : 2-3 > and <Performance Specifications : 3-1~3-8> or not . The quantity of sampling is 3 pcs per each items :

Storage Test At High Temperature Storage Test At Low Temperature	(1)Temperature : +80±2°C (2)Time : 48H	After storaging in the each environment without operation ,then keep it in normal temperature and humidity for 6 hours. The actuator should still meet the related specification shown in general spec. and
Storage Test At Low Temperature		related specification shown in general spec, and
Storage Test At Low Temperature		performance specifications : 2 1 2 8
	(1)Temperature : -30±3℃ (2)Time : 48H	Figure 2: Inspections: These Graph for KEI themes Block Tear
	(1)Temperature : +80±2°C/30min -	
Femperature Cycle Test	-30±3°C/30min (2)Ambient Time:5min	Surgition (1
	(3)Times: 10 cycles	
Vibration Test	(1)Frequency : 10-55Hz sweep sine wave(2)Amplitude:1.5mm(P-P)	After the test, the motor should still meet the related specification shown in general spec. and performance spec. <general ,<="" 2-3="" specification="" td=""></general>
	(3)Time: 25 min/X,Y,Z direction	Performance Specifications : 3-1~3-8 >
	(1)Highet: 100 cm	ł
Bulk Package Test	(2)Floor : Wood (3)direction : 6 face	
		After the test, the motor should still meet the related
	(1)Current : 0~90~0 mA	specification shown in general spec. and performance spec. <general ,<br="" 2-3="" specification="">Performance Specifications : 3-1~3-8 ></general>
Durability	(2)Optical Axis : +Z direction (3)Cycle : 1cycle=0.5s ON \rightarrow 0.5s OFF	Ryani Sawa Shu Baylin (KBU Na 15
	(4)Temperature : $23^{\circ}C \pm 2^{\circ}C$ (5)Times : 3,000,000cycles (TBD)	
Y		Teré

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