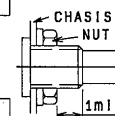


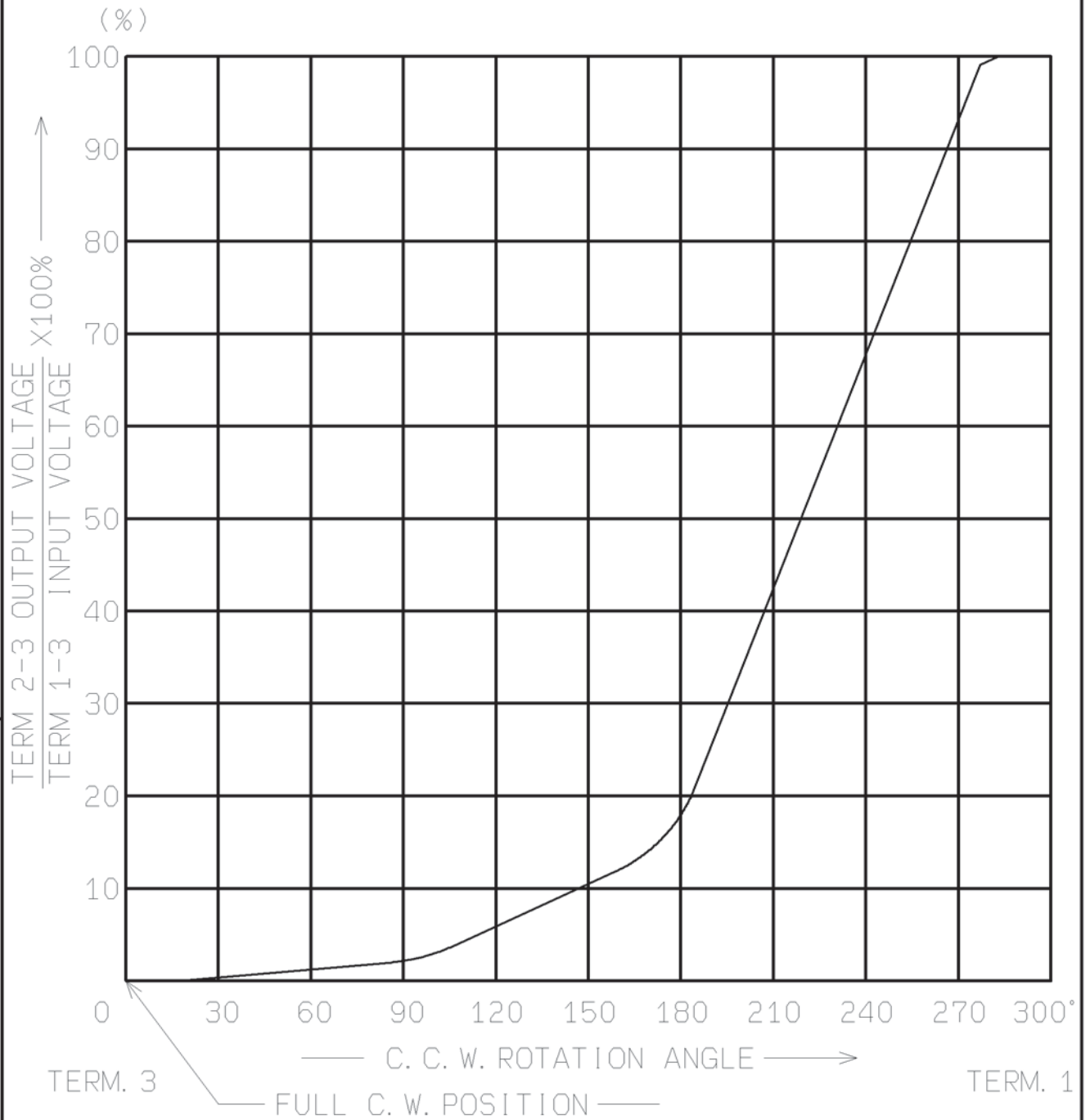
ELECTRICAL	(R 1 , R 2)	(R 3)
1. Total resistance:	5 k Ω \pm 20%	10 k Ω \pm 20%
2. Rated power:	0.05W	0.05W
3. Rated voltage:	See "4K09-16".	
4. Resistance taper:	See (K09-D05)	See (K09-B01)
5. Tap position:		
6. Tap resistance between terminals:		
7. Residual resistance between terminals:	1&2, 2&3 : 20 Ω max.	1&2, 2&3 : 20 Ω max.
8. Sliding noise : (Measured by JIS C 6443)	Less than 100mV (Except click point)	Less than 100mV (Except click point)
9. Insulation resistance :	More than 100 M Ω at 250V D.C.	
10. Withstand voltage:	300V A.C. for 1 minute.	
11. Gang error :	3 dB max. at click position.	
12. switch rating:(Resistor load)		
13. Switch contact resistance:		
14. Circuit:		
MECHANICAL	(R 1 - R 3)	
1. Total rotational angle :	300° \pm 5°	
2. Rotational torque: (Rotational speed 60°/sec.)	2-25 mN·m	
3. Stopper strength :	No damages with an application of 0.5 N·m.	
4. Resistance to soldering heat :	See "5K09-3". *Pay attention otherwise the strength may not be assured.	
5. Bushing nut tightening strength :	(M6) Tightening torque to be no greater than 1.2N·m. (M7) Tightening torque to be no greater than 1 N·m.	
6. Push / pull strength :	No damages with an application of Push or pull force 100N for 10 sec.	
7. Shaft wobble :	See "5K09-3".	
8. Operation force of shaft:		
9. Click position :	150° \pm 5°	
10. Click torque:	Rotational torque + (3-20)mN·m	
11. Rotation play at the click position:	5° max.	
12. Contact arrangement :		
13. Switching angle :		
14. Switch operation torque :		
ENDURANCE		
1. Rotational life :	More than 15,000 cycles.	
NOTES 1. The items except above mentioned items shall meet or exceed JIS C 6443. 2. This type is protected against sulfides. 3. Operating temperature range : -20°C to +70°C 4. Storage temperature range : -40°C to +85°C		
4K09-16 5K09-3		
ALPS ELECTRIC CO., LTD.		
TITLE	SPECIFICATIONS	
SYMB	DATE	APPD
CHKD	DSGD	NO.
APPD.	2012-12-18	S. MIZOBUCHI
CHKD.		
DSGD.	2012-12-18	Y. ASHIDA
NO.	5K093T0020	



4K09-16
5K09-3



ALPSALPINE CO., LTD.

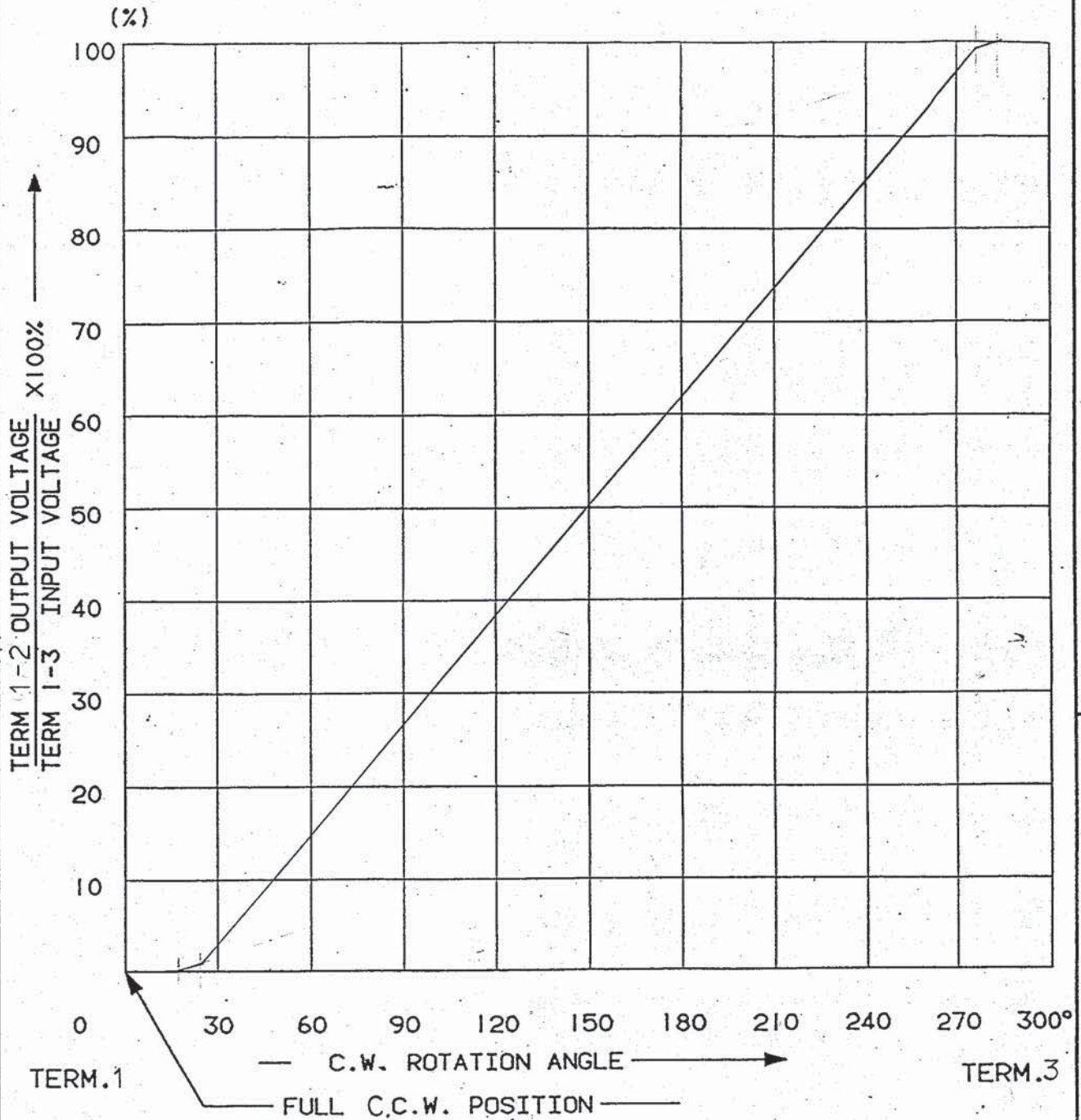


AT 150° C. C. W. SHAFT ROTATION FROM FULL C. W. POSITION, VOLTAGE PERCENT SHALL FALL WITHIN THE LIMITS OF 6~15 PERCENT.

					DSGD. K. SUZUKI Jul. 08' 94		TITLE RESISTANCE TAPER
					CHKD. S. SASAKI Jul. 08' 94		DOCUMENT NO. K09-D05
ORG	' 83-12-08	T. S	K. M	K. S	APPD. Y. OHNO Jul. 08' 94	UNIT m m	
SYMB	DATE	APPD	CHKD	DSGD			

Confidential

ALPSALPINE CO., LTD.



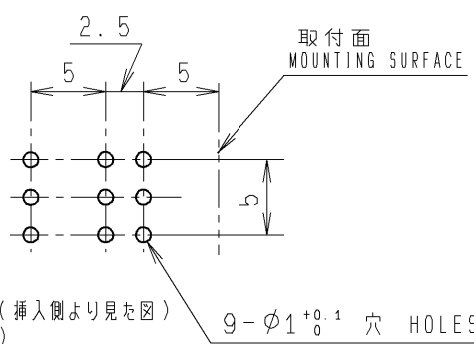
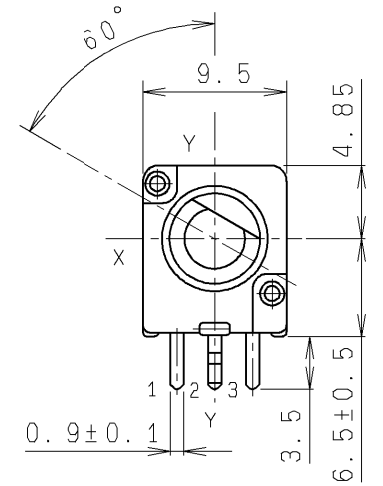
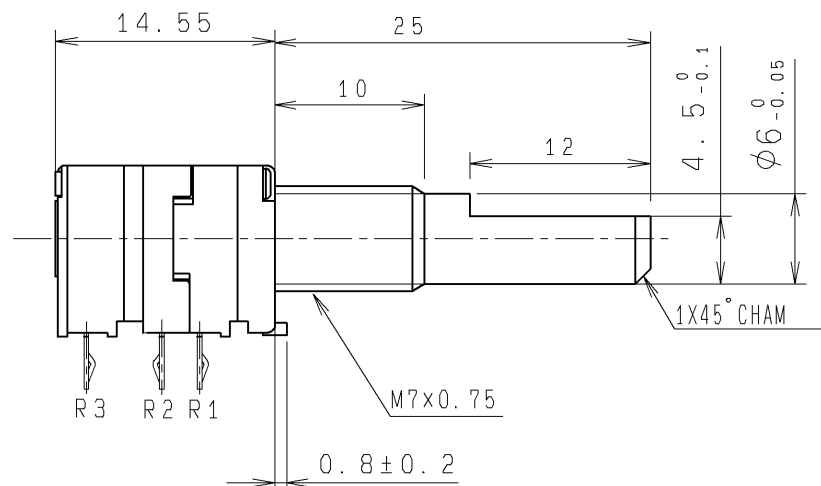
AT 150° C.W. SHAFT ROTATION FROM FULL C.C.W. POSITION, VOLTAGE PERCENT SHALL FALL WITHIN THE LIMITS OF 40 - 60 PERCENT.

B7-7
TONE
⑤

				DSGD K. Suzuki Jul. 25 '95	SCALE	
				CHKD. N. Saschi Jul. 25 '95		TITLE RESISTANCE TAPER
Original	84-05-28	k, M	k, S	k, S	APPD. Y. Ohno Jul. 25 '95	UNIT m m
SYMB	DATE	APPD	CHKD	DSGD		DOCUMENT NO. K09-B01

Confidential

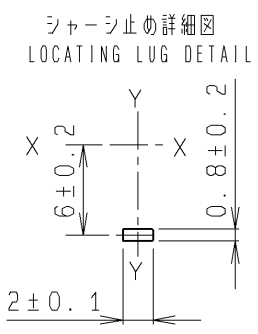
NOTES
 BUSHING MATERIAL ----- ZINC ALLOY DIE CASTING
 SHAFT MATERIAL ----- ALUMINUM



端子取付穴寸法図 (挿入側より見た図)
 (許容差±0.1)
 MOUNTING HOLE DETAIL
 (TOLERANCE±0.1)
 VIEWED FROM
 MOUNTING SIDE



センタークリック位置に
 おける軸角度詳細図
 SHAFT SHOWN IN
 CENTER CLICK POSITION



シャフト止め詳細図
 LOCATING LUG DETAIL

上図は軸を反時計方向に
 回し切った状態を示す。
 SHAFT SHOWN IN
 FULL CCW POSITION

推定なま部分の許容差 TOLERANCES UNLESS OTHERWISE SPEC							ALPS ELECTRIC CO., LTD.		
L ≤ 10	±0.3	DSGN.	Y. ASHIDA 2012-12-07		SCALE	150° CLICK			
10 < L < 100	±0.5	CHKD.				TITLE			
100 ≤ L	±0.8	APPD.	S. MIZOBUCHI 2012-12-07			UNIT	DOCUMENT NO.		
角度 ANGULAR DIMENSION	±5°	SYMB	DATE	APPD	CHKD	DSGD	m m		K093T0A0F

5.8g