



UNI-ROYAL
厚聲集團

DATA SHEET

Product Name Capped Ceramic Rod

Part Name OS Series

File No. DIP-SP-074

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1. Scope

- 1.1 This specification for approve relates to the Ceramic Rod manufactured by UNI-ROYAL.
- 1.2 Aluminum Content 70%, 80%, 85%.
- 1.3 Electronic Ceramic parts in superior performance.
- 1.4 Suitable for producing in different types of Wire-wound resistors.

2. Explanation of Part No. System

The standard Part No. includes 14 digits with the following explanation:

- 2.1 The 1st to 2nd digits are to indicate the product type .

Example: OS= Ceramic Rod for Wire-wound

- 2.2 The 3th digit is the type.

Example: C= Capped Ceramic Rod

- 2.3 The 4th digit is the Alumina Content.

Example: 1= Alumina 70% ; 2= Alumina 80% ; 3= Alumina 85% ; 4=Alumina 25% ;
 5=Alumina 55% ; 6=Alumina 75% ; 7=Alumina 92% ; 8=Alumina 98%

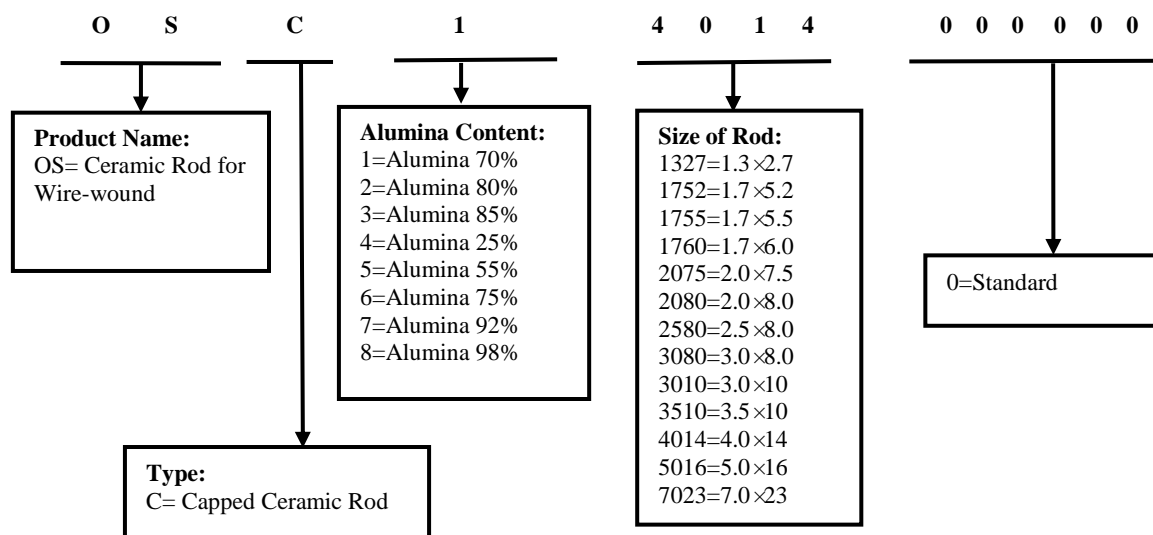
- 2.4 The 8th to 11th digits is to denote the Size of Rod.

Example: 1327=1.3×2.7 ; 1752=1.7×5.2 ; 1755=1.7×5.5 ; 1760=1.7×6.0 ; 2075=2.0×7.5 ; 2080=2.0×8.0 ; 2580=2.5×8.0 ;
 3080=3.0×8.0 ; 3010=3.0×10 ; 3510=3.5×10 ; 4014=4.0×14 ; 5016=5.0×16 ; 7023=7.0×23

- 2.5 The 9th to 14th digits is to Standard:

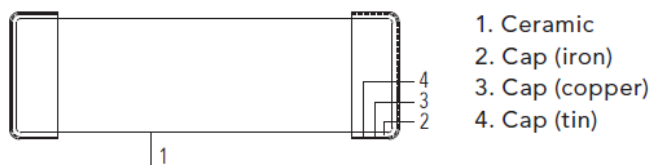
Example: 0=Standard

3. Ordering Procedure: (Example: : OSC1401400000)



4. Material

- (1) Ceramic rod main ingredient : AL₂O₃ 72% , tolerance:±3%(mark alumina content 70%) or customer requirement.
 Remarks: 1.3*2.7 content AL₂O₃ 80% , tolerance:±2%(mark alumina content 80%)
- (2) Iron cap main material: iron Iron cap main ingredient: pure Cu pure Sn

5. Dimension

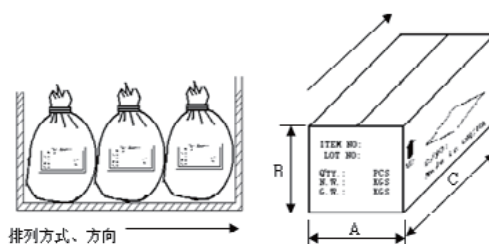
Unit: mm

NO	Size	Capped Ceramic Rod		MIN PULLING FORCE (KG)
		D	L	
1	1.3x2.7	1.54~1.66	2.86~3.16	2
2	1.7x5.2	2.03~2.17	5.36~5.76	3
3	1.7x5.5	2.03~2.17	5.66~6.16	3
4	1.7x6.0	2.03~2.17	6.16~6.66	3
5	2.0x7.5	2.33~2.58	7.66~8.27	5
6	2.0x8.0	2.33~2.57	8.16~8.77	5
7	2.5x8.0	2.82~3.08	8.16~8.77	6
8	3.0x8.0	3.32~3.58	8.16~8.77	6
9	3.0x10	3.32~3.58	10.06~10.89	6
10	3.5x10	3.81~4.08	10.06~10.89	6
11	4.0x14	4.31~4.59	14.06~14.89	6
12	5.0x16	5.41~5.59	16.16~16.89	6
13	7.0x23	7.39~7.61	22.96~24.09	6

6. Standard for testing

- (1) Appearance: Inspect appearance with eyes and sense of touch
 - ①、Ceramic rod Surface should be smooth and neat, without greasy dirt. t the same time crooked cap etc.
- (2) Size: Measure it with vernier caliper and micrometer
- (3) Pulling force test standard value:

Test Item		Remark
Specification	Min pulling force(Kg)	
1.7*5.2	3	
3*8	6	
3*19	6	
3*10	6	
3.5*10	6	
4*14	6	
4*22	6	
4*39	6	
5*16	6	
6.4*22	6	
7*23	6	

7. Packing

No.	Type	Size (mm)			Quantity (KPCS)	
		A	B	C	Pouch	Box
1	1.3x2.7	25	20	45	600	1800
2	1.7x5.2	25	20	45	200	600
3	1.7x5.5	25	20	45	200	600
4	1.7x6.0	25	20	45	200	600
5	2.0x7.5	25	20	45	100	300
6	2.0x8.0	25	20	45	100	300
7	2.5x8.0	25	20	45	60	180
8	3.0x8.0	25	20	45	40	120
9	3.0x10	25	20	45	40	120
10	3.5x10	25	20	45	25	75
11	4.0x14	25	20	45	12.5	37.5
12	5.0x16	25	20	45	7.5	22.5
13	7.0x23	25	20	45	2.5	7.5

8. Note

8.1 UNI-ROYAL recommend the storage condition temperature: 15°C~35°C, humidity :25%~75%

(Put condition for individual product)

Even under UNI-ROYAL recommended storage condition, solderability of products over 1 year old (Put condition for each product) may be degraded.

8.2 Store / transport cartons in the correct direction, which is indicated on a carton as a symbol.

Otherwise bent leads may occur due to excessive stress applied when dropping of a carton.

8.3 Product performance and soldered connections may deteriorate if the products are stored in the following places:

- Storage in high Electrostatic
- Storage in direct sunshine、rain and snow or condensation
- Where the products are exposed to sea winds or corrosive gases, including Cl₂, H₂S₃, NH₃, SO₂, NO₂.

9. Record

Version	Description of amendment	Page	Date	Amended by	Checked by
1	First issue of this specification	1~7	Aug.13,2018	Chen Haiyan	Chen Nana

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