

# TS2603

## FEATURES

- Metal case encapsulation, Hermitically-sealed, Tubular, Axial-lead, With insulation sleeve, Heteropolarity
- Stable in Electrical Characteristics, High reliability, Good Storage Stability Long life-span, Low DF & DCL
- Applying in Telecommunications, such Electrical Equipments with DC & impulse Circuit

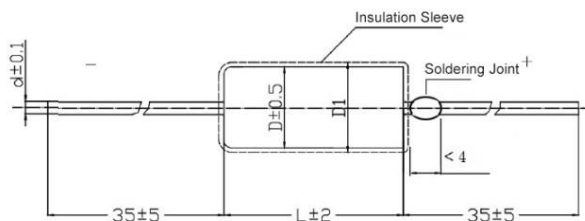
## SPECIFICATIONS

Technical Data	All technical data relate to an ambient temperature of +25 °C
Capacitance Tolerance	±20%, ±10%,
Temperature Range	-55 °C to +125 °C
DC Leakage	$I_0 \leq 0.01C_R U_R$ (µA) or 0.5µA (which is greater)



## DIMENSIONS

Case Code	Uninsulated		With Insulated Sleeve		d ±0.1 (mm)
	D ±0.5 (mm)	L ±2 (mm)	D1 max (mm)	L max (mm)	
A	3.2	8		10	0.4
B	5	12	5.8	14	0.6
C	6	14	6.8	16	0.6
D	8	14	8.8	16	0.8
E	8	22	8.8	24	0.8



## Temperature Characteristics

Capacitance Range $C_R$ (µF)	Range of Capacitance (%)			DF (%)				DCL (µA)	
	-55 °C	85 °C	125 °C	-55 °C	25 °C	85 °C	125 °C	85 °C	125 °C
≤1	±8	±8	±12	3	3	3	3	8I <sub>0</sub>	10I <sub>0</sub>
1.5 ~ 68				5	5	5	5		
100 ~ 330				6	6	6	6		
470 ~ 1000				8	8	8	8		

## Rated Voltage, Category Voltage, and Nominal Capacitance

Rated Voltage $U_R$ (V)	6.3	10	16	25	35	40	63	75	100
Category Voltage $U_R$ (V)	4	6.3	10	16	20	25	40	50	63
Case Code	Nominal Capacitance $C_R$ (µF)								
A	4.7	3.3	2.2	1	0.68	0.47	0.22	0.22	0.1
	6.8	4.7	3.3	1.5	1	0.68	0.33	0.33	0.15
	10	6.8	4.7	2.2	1.5	1	0.47	0.47	0.22
	15	10	6.8	3.3	2.2	1.5	0.68	0.68	0.33
	22	15	10	4.7	3.3	2.2	1	--	0.47
B	--	--	--	6.8	--	--	--	--	0.68
	33	22	15	10	4.7	3.3	1.5	1	1
	47	33	22	15	6.8	4.7	2.2	1.5	1.5
	68	47	33	22	10	6.8	3.3	2.2	2.2
C	100	68	47	33	15	10	4.7	3.3	--
	150	100	68	47	22	15	6.8	4.7	3.3
D	220	150	100	68	33	22	10	6.8	4.7
	330	220	150	100	47	33	15	10	--
E	470	330	220	--	68	47	22	--	--
	680	470	330	150	100	68	33	--	--
	1000	680	470	220	150	100	47	--	--

### Note:

1. Please do not use multimeter through the measuring procedures.
2. Capacitance and DF measured at 100Hz,  $U_- = 2.20^{0}_{-1.0}V$ ,  $U_+ = 1.0^{0}_{-0.5}V$ , Frequency=100Hz. Test only applied in series equivalent circuit.
3. Voltage derating is applied at +125°C. (The DCL parameter should be read after 5 minutes when it connected to the circuit).
4. Special size and demand could consult with us.

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.