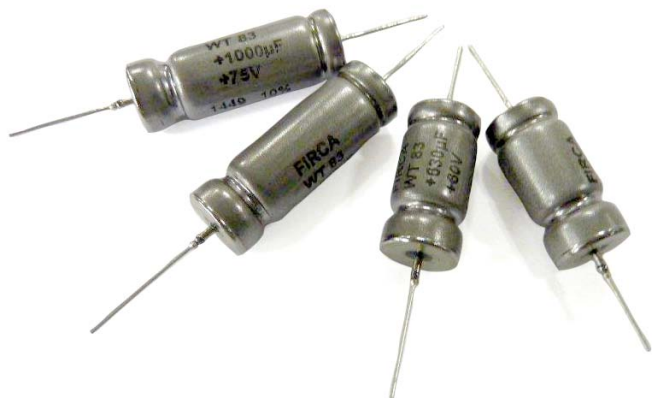


# WT 83



Wet tantalum capacitors  
**Hermetically sealed tantalum cases**  
**Extended Capacitance**  
**Enhanced performance**  
**High reliability design**  
 Axial leads  
 Polarized types

Condensateurs tantale à électrolyte gélifié  
**Boîtiers tantale hermétiques**  
**Capacité étendue**  
**Amélioration des performances**  
**Conception de haute fiabilité**  
 Sorties axiales  
 Polarisés



**AERONAUTIC**  
Aéronautique



**SPACE**  
Spatial



**DEFENCE**  
Défense

## ELECTRICAL AND CLIMATIC CHARACTERISTICS

## CARACTÉRISTIQUES ÉLECTRIQUES ET CLIMATIQUES

	WT 83	
Operating temperature	-55°C +125°C	Température d'utilisation
Capacitance range	150 µF...10 000 µF (@ 120 Hz)	Gamme de capacité
Tolerance	20%...10% (@ 120 Hz)	Tolérance
Voltage range	10V <sub>DC</sub> ...125V <sub>DC</sub>	Gamme de tension
Max. surge voltage at +85°C	see table/voir tableau	Surtension max. à +85°C
Life testing	2000H at 85°C under rated voltage / sous tension nominale or 2000H at 125°C under category voltage / sous tension de catégorie	Durée de vie
Damp heat	56 days / jours	Chaleur humide
Low pressure	1,45 mbar (45 720 m)	Basse pression
Shock	100 g	Chocs
Vibrations, high frequency	50 g	Vibrations, haute fréquence
Thermal shock	-55°C +125°C 30 cycles	Choc thermique
Solderability	MIL-STD-202 method 208	Soudabilité
Terminal strength	MIL-STD-202 method 211	Robustesse des terminaisons

## HOW TO ORDER

## EXEMPLE DE CODIFICATION À LA COMMANDE

Model Modèle	Case in code Boîtier en code	Capacitance in code Valeur capacité en code	Capacitance tolerance Tolérance capacité	DC Voltage Tension nominale V <sub>CC</sub>	Termination Terminaison	Sleeve Manchon
WT83	C-D	477	M	075	H	S
	See Ratings and Case code table	Expressed in pF with 3 digits: 2 digits for the value and the third for the multiplier	K = 10% M = 20%	Expressed in volt with 3 digits	H = SnPb F = Sn100	U = Without S = With

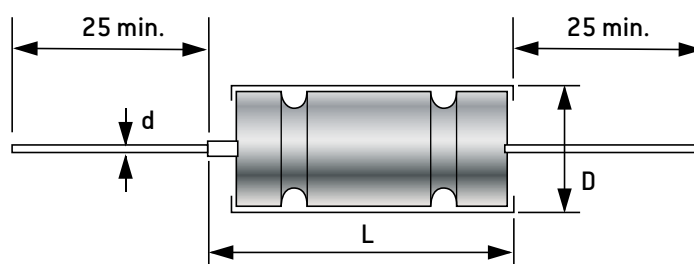
## DIMENSIONS (mm)

Case code Boîtier	Dimensions with insulating sleeve Dimensions avec gaine isolante		
	L max	D max	d +10% -0,05
C	26	10,1	0,6
D	34	10,1	0,6

**MARKING, PACKAGING, CONSTRUCTION :**  
see general characteristics

**MARQUAGE, CONDITIONNEMENT, CONSTRUCTION :**  
voir caractéristiques générales

## DIMENSIONS (mm)



WT 83

## STANDARD RATINGS - ELECTRICAL CHARACTERISTICS

## VALEURS STANDARD - CARACTÉRISTIQUES ÉLECTRIQUES

Capacitance Capacité 120 Hz +20°C ( $\mu$ F)	Case Boîtier (code)	Capacitance maximum change Variation maximum de la capacité			Max. Impedance Impédance max. 120 Hz -55°C ( $\Omega$ )	Max. I leak I fuite max.		I rms Max. I eff. max. 40 kHz +85°C (mA)	Max. RSE ESR max.	
		-55°C (%)	+85°C (%)	+125°C (%)		+20°C ( $\mu$ A)	+85°C / +125°C ( $\mu$ A)		120 Hz ( $\Omega$ )	40 kHz ( $\Omega$ )
Rated voltage (+85°C) 10V / Surge (+85°C) 11,5V - Category voltage (+125°C) 7V										
4700	C	-80	+10	+20	3.50	16	100	4000	0.35	0.14
10 000	D	-85	+20	+35	3.00	25	150	5000	0.25	0.10
Rated voltage (+85°C) 16V / Surge (+85°C) 18,4V - Category voltage (+125°C) 11V										
3300	C	-80	+10	+15	3.50	16	100	4000	0.35	0.14
6000	D	-80	+15	+20	3.00	25	150	4500	0.30	0.12
Rated voltage (+85°C) 25V / Surge (+85°C) 28,8V - Category voltage (+125°C) 15V										
2200	C	-80	+10	+15	5.50	16	100	3750	0.40	0.16
4000	D	-80	+15	+20	5.00	25	125	4250	0.35	0.14
Rated voltage (+85°C) 30V / Surge (+85°C) 34,5V - Category voltage (+125°C) 20V										
1800	C	-80	+15	+20	4.50	16	100	2100	0.45	0.18
3300	D	-80	+20	+25	4.00	25	125	2750	0.35	0.14
Rated voltage (+85°C) 35V / Surge (+85°C) 40,3V - Category voltage (+125°C) 22V										
1500	C	-80	+15	+25	5.00	16	100	3000	0.50	0.20
2800	D	-80	+20	+30	4.50	25	125	4000	0.35	0.14
Rated voltage (+85°C) 50V / Surge (+85°C) 57,5V - Category voltage (+125°C) 30V										
1000	C	-70	+10	+20	10.0	16	125	2450	0.95	0.38
1500	C	-80	+15	+25	8.00	25	130	2400	1.00	0.40
1500	D	-70	+20	+20	6.00	15	110	3500	0.35	0.14
2200	D	-80	+25	+30	4.50	25	125	3000	0.60	0.24
Rated voltage (+85°C) 60V / Surge (+85°C) 69V - Category voltage (+125°C) 40V										
600	C	-75	+12	+15	10.0	20	120	2500	0.90	0.36
1000	D	-40	+10	+15	5.50	20	120	3500	0.50	0.20
1200	D	-70	+15	+20	6.00	20	200	3500	0.50	0.20
Rated voltage (+85°C) 75V / Surge (+85°C) 86,3V - Category voltage (+125°C) 50V										
470	C	-45	+10	+25	10.0	25	100	3000	0.60	0.24
750	D	-35	+10	+15	6.50	20	120	3500	0.50	0.20
1000	D	-65	+12	+20	8.00	20	200	3500	0.60	0.24
Rated voltage (+85°C) 100V / Surge (+85°C) 115V - Category voltage (+125°C) 65V										
220	C	-55	+10	+15	18.0	5	25	2500	1.40	0.56
400	D	-40	+6	+12	15.0	10	120	3000	0.70	0.28
470	D	-50	+10	+20	10.0	25	250	3500	0.70	0.28
Rated voltage (+85°C) 125V / Surge (+85°C) 144V - Category voltage (+125°C) 85V										
150	C	-50	+10	+15	25.0	5	25	2000	1.10	0.44
240	D	-35	+6	+12	20.0	15	150	2500	0.80	0.32
330	D	-55	+8	+12	15.0	25	250	2500	0.80	0.32