RVT-VT Series

WIDE TEMPERATURE 宽温品



- Operating with wide temperature range -40 ~ +105°C
  适用于-40 ~ +105°C 的宽温范围
- Load life of 1000~2000 hours
  负荷寿命1000~2000小时
- Comply with the RoHS directive
  符合RoHS指令

■ 主要技术性能 Specification

项目 Item	特性 Performance Characteristics
使用温度范围 Operating temperature range	-40 ~ +105°C
额定电压范围 Rated voltage range	4 ~ 100V
标称电容量范围 Nominal capacitance range	0.1 ~ 6800μF
标称电容量允许偏差 Capacitance tolerance	± 20% (120Hz, +20°C)
漏电流 Leakage current	I ≤ 0.01CV 或 3(μA) 2分钟 取较大者 （at 20℃,after 2 minutes）(whichever is greater)　　I ≤ 0.02CV +15 (μA) 1分钟（1 minute）

损耗角正切值（tg δ）
Dissipation factor (+20℃, 120Hz)

U_R (V)		4	6.3	10	16	25	35	50	63	100
tg δ	∅4~∅10	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.12	0.12
	∅12.5~∅16	0.42	0.38	0.34	0.30	0.26	0.22	0.18	0.14	0.12

温度特性Temperature characteristics
(Impedance ratio at 120Hz)

		4	6.3	10	16	25	35	50~63	100
∅4~∅10	Z(-25°C) / Z(20°C)	7	4	3	2	2	2	2	3
	Z(-40°C) / Z(20°C)	15	8	6	4	4	3	3	4
∅12.5~∅16	Z(-25°C) / Z(20°C)	7	5	4	3	2	2	2	2
	Z(-40°C) / Z(20°C)	17	12	10	8	5	4	3	3

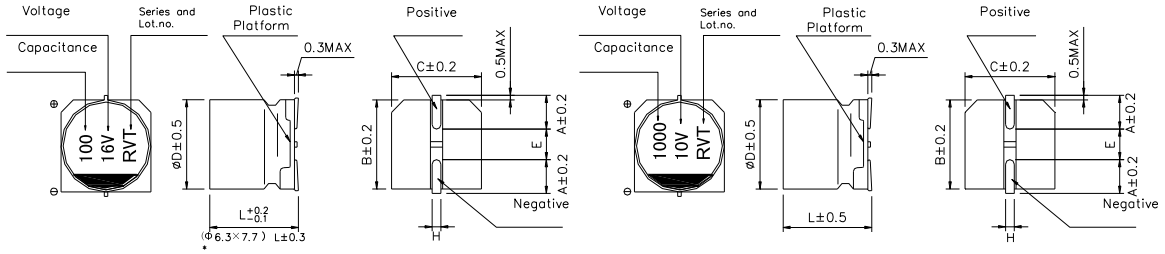
耐久性
Load life

After 2000 hrs. (1000 hrs. for ∅4~∅6.3×5.4) application of the rated voltage at 105°C, they meet the characteristics listed below.　在105℃环境中施加额定工作电压2000小时（∅4~∅6.3×5.4 为1000小时）后，电容器的特性符合下表的要求。
电容量变化率 Capacitance change：±20%初始测量值以内 ±20% of the initial measured value
漏 电 流　Leakage current：≤初始规定值 ≤the initial specified value
损耗角正切值　Dissipation factor：≤2倍初始规定值 ≤2times of the initial specified value

高温贮存
Shelf life

+105℃,1000小时贮存后,恢复16小时后：
After storage for 1000 hours at +105℃ and then resumed for 16 hours:
电容量变化率 Capacitance change：±10%初始测量值以内 10% of the initial measured value
漏 电 流　Leakage current：≤2倍初始规定值 ≤2times of the initial specified value
损耗角正切值　Dissipation factor：≤2倍初始规定值 ≤2times of the initial specified value

■ 外形图及尺寸图 Case size table



*1. Voltage mark for 6.3V is [6V]　6.3V的產品標識為 [6V]
*2. Applicable to ∅6.3×7.7　適用於∅6.3×7.7
*3. Applicable to ∅8×10.5~∅10　適用於∅8×10.5~∅10
*4. Applicable to ∅12.5~∅16　適用於∅12.5~∅16

V-Chip

RVT-VT Series

ØD x L	4 x 5.4	5 x 5.4	6.3 x 5.4	6.3 x 7.7	8 x 6.2	8 x 10.5	10 x 10.5	10 x 13.5	12.5 x 13.5	12.5 x 16	16 x 16.5
A	1.8	2.1	2.4	2.4	3.3	2.9	3.2	3.2	4.7	4.7	5.5
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	13.0	13.0	17.0
E ± 0.2	1.0	1.3	2.2	2.2	2.2	3.1	4.4	4.4	4.4	4.4	6.7
L	5.4	5.4	5.4	7.7	6.2	10.5	10.5	13.5	13.5	16.0	16.5

■ 尺寸 Dimensions

WV / Code 代码 / μF		4		6.3		10		16		25	
		0G		0J		1A		1C		1E	
4.7	4R7									4 × 5.4	13
10	100							4 × 5.4	18	5 × 5.4 (4 × 5.4)	20 (14)
22	220			4 × 5.4	22	5 × 5.4 (4 × 5.4)	25 (20)	5 × 5.4 (4 × 5.4)	27 (20)	6.3 × 5.4 (5 × 5.4)	36 (25)
33	330	5 × 5.4 (4 × 5.4)	30 (18)	5 × 5.4 (4 × 5.4)	27 (22)	5 × 5.4 (4 × 5.4)	30 (22)	6.3 × 5.4 (5 × 5.4)	40 (28)	6.3 × 5.4 (5 × 5.4)	44 (29)
47	470	5 × 5.4 (4 × 5.4)	36 (24)	5 × 5.4 (4 × 5.4)	33 (25)	6.3 × 5.4 (5 × 5.4)	41 (30)	6.3 × 5.4 (5 × 5.4)	48 (31)	6.3 × 5.4 (8 × 6.2)	48 (91)
100	101	6.3 × 5.4 (5 × 5.4)	60 (43)	6.3 × 5.4 (5 × 5.4)	50 (39)	6.3 × 5.4 (8 × 6.2)	53 (110)	6.3 × 5.4 (8 × 6.2)	60 (120)	6.3 × 7.7	91
150	151	6.3 × 5.4	52	6.3 × 5.4	55	6.3 × 5.4	62	6.3 × 7.7	95	8 × 10.5 (6.3 × 7.7)	140 (100)
220	221	6.3 × 5.4	57	6.3 × 7.7 (6.3 × 5.4)	105 (67)	6.3 × 7.7 (8 × 6.2)	105 (105)	8 × 10.5 (6.3 × 7.7) (8 × 6.2)	150 (105) (85)	8 × 10.5	175
330	331	6.3 × 7.7	100	6.3 × 7.7	105	8×10.5	196	8 × 10.5	195	10 × 10.5 (8 × 10.5)	240 (220)
470	471	6.3 × 7.7	105	8 × 10.5 (6.3 x 7.7)	210 (120)	10 × 10.5 (8 × 10.5)	260 (210)	10 × 10.5 (8 × 10.5)	295 (230)	10 × 10.5	280
680	681	8 × 10.5	210	8 × 10.5	210	10 × 10.5	270	10 × 10.5	315	10 × 13.5	400
1000	102	8 × 10.5	230	10 × 10.5 (8 × 10.5)	300 (230)	10 × 10.5	315	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	500 (390) (340)	12.5 × 13.5	580
1500	152	10 × 10.5	315	10 × 13.5 (10 × 10.5)	450 (315)	10 × 13.5	460	12.5 × 13.5	550	12.5 × 16	850
2200	222	10 × 13.5 (10 × 10.5)	440 （340）	12.5 × 13.5 (10 × 13.5)	620 (500)	12.5 × 13.5	680	16 × 16.5 (12.5 × 16)	950 (750)	16 × 16.5	1050
3300	332	10 × 13.5	490	12.5 × 16 (12.5 × 13.5)	700 (660)	16 × 16.5	1000	16 × 16.5	1000		
4700	472	12.5 × 13.5	600	16 × 16.5	1000					Case size 尺寸	Ripple current 纹波电流
6800	682	16 × 16.5 (12.5 × 16)	950 （650）								

WV / Code 代码 / μF		35		50		63		100	
		1V		1H		1J		2A	
0.1	0R1			4 × 5.4	0.7	4 × 5.4	0.7		
0.22	R22			4 × 5.4	1.6	4 × 5.4	1.6		
0.33	R33			4 × 5.4	2.5	4 × 5.4	2.5		
0.47	R47			4 × 5.4	3.5	4 × 5.4	3.5		
1	010			4 × 5.4	7	4 × 5.4	7	4 × 5.4	7
2.2	2R2			4 × 5.4	11	4 × 5.4	11	6.3 × 5.4	14
3.3	3R3	4 × 5.4	13	4 × 5.4	13	5 × 5.4	13	6.3 × 7.7 (6.3 × 5.4) (8 × 6.2)	32 (20) (30)
4.7	4R7	4 × 5.4	14	5 × 5.4 (4 × 5.4)	16 (13)	5 × 5.4	16	6.3 × 7.7 (6.3 × 5.4)	35 (21)
10	100	5 × 5.4 (4 × 5.4)	21 (14)	6.3 × 5.4	24	6.3 × 7.7 (6.3 × 5.4) (8 × 6.2)	39 (24) (25)	8 × 10.5 (6.3 × 7.7)	77 (35)
22	220	6.3 × 5.4	38	6.3 × 7.7 (6.3 × 5.4) (8 × 6.2)	51 (42) (70)	8 × 10.5 (6.3 × 7.7)	98 (49)	10 × 10.5 (8 × 10.5)	126 (84)
33	330	6.3 × 5.4 (8 × 6.2)	42 (84)	6.3 × 7.7	60	8 × 10.5	112	10 × 10.5	133
47	470	6.3 × 7.7 (6.3 × 5.4)	70 (50)	8 × 10.5 (6.3 × 7.7)	120 (63)	10 × 10.5 (8 × 10.5)	160 (119)	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	250 (160) (140)
68	680					Case size 尺寸	Ripple current 纹波电流	12.5 x 13.5 (10 x 13.5)	300 (180)

•Case size ∅D×L(mm), ripple current (mA rms) at 105°C 120Hz •尺寸∅D×L(mm)，纹波电流(mA rms)於 105°C 120Hz

RVT-VT Series

■ 尺寸 Dimensions

WV / Code 代码 / μF		35		50		63		100	
		1V		1H		1J		2A	
100	101	8 × 10.5 (6.3 × 7.7)	120 (84)	10 × 10.5 (8 × 10.5)	170 (140)	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	270 (210) (196)	16 × 16.5 (12.5 x 13.5)	450 (380)
150	151	8 × 10.5	155	10 × 10.5	170	10 × 13.5	225		
220	221	10 × 10.5 (8 × 10.5)	220 (190)	10 × 13.5 (10 × 10.5)	280 (220)	16 × 16.5 (12.5 × 13.5) (10 x 13.5)	560 (470) (235)	16 × 16.5	550
330	331	10 × 10.5	245	16 × 16.5 (12.5 × 13.5) (10 x 13.5)	600 (420) (295)	16 × 16.5 (12.5 × 16)	700 (510)		
470	471	12.5 × 13.5 (10 × 13.5) (10 × 10.5)	520 (375) (280)	16 × 16.5 (12.5 × 16)	700 (520)	16 × 16.5	750		
680	681	12.5 × 13.5 (10 × 13.5)	530 (395)	16 × 16.5	750			Case size 尺寸	Ripple current 纹波电流
1000	102	16 × 16.5 (12.5 × 16)	750 (600)						

•Case size ∅D×L(mm), ripple current (mA rms) at 105°C 120Hz •尺寸∅D×L(mm) 纹波电流 (mA rms)於 105°C 120Hz

■ 纹波电流的相关参数 Multiplier For Ripple Current

Frequency 频率			50Hz	120Hz	300Hz	1KHz	10KHz-
Coefficient 系数	Φ4-Φ10	0.1-68uF	0.70	1.00	1.17	1.36	1.50
		100-300uF	0.85	1.00	1.08	1.20	1.30
	Φ12.5-Φ16	-68uF	0.75	1.00	1.35	1.57	2.00
		100-680uF	0.80	1.00	1.23	1.34	1.50
		1000-6800uF	0.85	1.00	1.10	1.13	1.15

ENTEGRECİ

Bu belge www.entegreci.com üzerinden sunulmaktadır.

Elektronik komponent tedarikinde Entegreci

Entegreci, Eskişehir merkezli, Türkiye geneline satış yapan bir elektronik komponent mağazasıdır. Entegreler (IC), mikrodenetleyiciler, transistörler, diyotlar, pasif elemanlar, konnektörler, modüller ve geliştirme kartları tek adetten seri üretim adetlerine kadar satılır. Ürün sayfalarında güncel stok durumunu, fiyatı ve datasheet bağlantısını bulabilirsiniz.

Parça koduyla arama

Üretici parça numarasını yazın; stok ve fiyatı hemen görün.

www.entegreci.com

Ürün kategorileri

Entegreden kapasitöre tüm elektronik komponent kategorileri.

Kategorilere göz atın

Üreticiler

Aradığınız üreticinin ürünlerini tek sayfada inceleyin.

Üreticileri görün

Toplu alım ve teklif

Listede olmayan ya da yüksek adetli parçalar için teklif isteyin.

Teklif isteyin

www.entegreci.com | **destek@entegreci.com** | **0850 305 90 34**

Entegreci is an online electronic components store based in Türkiye. Search by manufacturer part number to see stock, prices and datasheets for integrated circuits, microcontrollers, transistors, passive components and connectors, or request a quote for parts that are not listed.

Bu sayfa Entegreci tarafından eklenmiştir. Belgenin önceki sayfaları asıl yayıncısına aittir ve içeriği değiştirilmemiştir; en güncel sürüm için belgenin yayıncısına başvurun.