GPR Series General Purpose Radial Capacitors multicomp PRO





RoHS Compliant

Features

- General purpose radial leaded electrolytic
- Supplied loose with straight leads
- Wide CV value range for general purpose
- Safety vent construction products, ECR series are guaranteed 2000 hours at 85°C

Specifications

Item	Performance									
Operating Temperature Range	-40°C to +85°C									
Rated Working Voltage Range	16 to 100V dc									
Nominal Capacitance Range	0.47μF to 4700μF									
Capacitance Tolerance	± 20% (at +20°C ,120Hz)									
Leakage Current	I=0.01CV +3μA maximum, Whichever is greater after 3 minutes. I: Leakage Current (μA) C: Rated Capacitance (μF)									
	V: Working Voltage (V)									
	Working Voltage	16	25	35	50	63	100			
Dissipation Factor (tan δ) (120Hz\+20°C)	tan δ max.	0.17	0.15	0.12	0.1	0.09	0.08			
(1201121-20-0)	Add 0.02 per 1,000µF for more than 1,000µF									
	Refer to standard products table (120Hz, +85°C) Correction factor for frequency									
Ripple Current	Frequency (Hz) 50/60		60	120 1K		10	K			
	Correction factor(Multiplier) 0.7 1				1.3 1.7					
	Working Voltage	16	25	35	50	63	100	1		
	-25°C/+20°C	2	2	2	2	2	2			
Characteristics at low temperature (stability at 120 Hz)	-40°C/+20°C	4	4	3	3	3	3			
temperature (stability at 120 112)	For capacitance value >1,000 μF, Add 0.5 per another 1,000 μF for -25°C/+25°C. Add 1 per another 1,000μF for -40°C/+20°C									
	After 2,000 hrs. application of DC rated working voltage at +85°C, The capacitor shall meet the following limits: Post test requirements at +20°C									
High Temperature Loading	Leakage currer	≤ the initial specified value								
	Capacitance char	≤ ±20% of initial measured value								
	Dissipation Factor(tan δ) ≤ 150% of initial specified value									
Shelf Life	After storage for 500hrs. at +85°c with no voltage applied. Post test requirements at +20°C same limits as high temperature loading.									

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Case Size Table

W.V.(SV)	16	25	35	50	63	100
μF	(20)	(32)	(44)	(63)	(79)	(125)
0.47	-	-	-	5 × 11	-	-
1	-	-	-	-	-	5 × 11
10		-	-	5 × 11	-	6.3 × 11
22	5 × 11	-	-	-	6.3 × 11	-
33		-	6.3 × 12	-	-	-
47		-	0.3 * 12	6 × 12	-	10 × 16
100	6.3 × 12	6.3 × 12	8 × 12	-	-	13 × 21
220	6 × 12	-	-	10 × 17	10 × 21	16 × 26
330	8 × 12	-	10 × 16	-	-	-
470	0 ^ 12	10 × 17	10 × 21	-	-	-
1000	10 × 17	10 × 21	13 × 22	-	16 × 32	-

Permissible Ripple Current

W.V. (SV)	16	25	35	50	63	100
μF	(20)	(32)	(44)	(63)	(79)	(125)
0.47	-	-	-	8	-	-
1	-	-	-	-	-	15
10	39	-	-	39	-	61
22	50	-	-	-	85	-
33	58	-	75	-	-	-
4 7	78	-	102	112	-	190
100	123	142	140	-	-	320
220	232	-	-	395	460	665
330	310	-	435	-	-	-
470	390	460	560	-	-	-
1000	690	850	875	-	1435	-

Max. ripple current: mA (rms) (at 85°C. 120HZ)

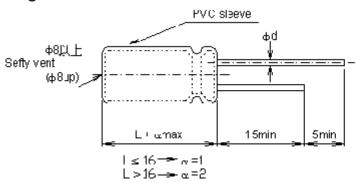
Dimensions: Millimetres

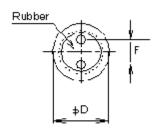


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Diagram of Dimensions





DØ (+0.5Max.)	5	6	6.3	8	10	13	16
F (±0.5)	2	2.5	2.5	3.5	5	5	7.5
dØ (±0.02)	0.5	0.5	0.5	0.6	0.6	0.6	0.8

Dimensions: Millimetres

Part Number Table

Description	Part Number		
Electrolytic Capacitor, 100μF, 100V, MCGPR Series, ±20%, Radial Leaded, 13mm	MCGPR100V107M13X21-RH		
Electrolytic Capacitor, 100μF, 25V, MCGPR Series, ±20%, Radial Leaded, 6.3mm	MCGPR25V107M6.3X11-RH		
Electrolytic Capacitor, 4.7μF, 50V, MCGPR Series, ±20%, Radial Leaded, 5mm	MCGPR50V475M5X11-RH		
Electrolytic Capacitor, 10µF, 63V, MCGPR Series, ±20%, Radial Leaded, 5mm	MCGPR63V106M5X11-RH		

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