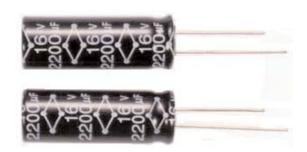
Electrolytic Capacitors

GLR Series





Features:

- Material : Aluminium.
- Low ESR.
- GLR series aluminium electrolytic capacitors are high reliable with low impedance, low ESR and guaranteed 2,000 hours at 105°C.
- · Suitable for switching power and automobile industry.

Specification Table

No.	Item		Performance							
1	Operating Temperature Range		-55 to +105°C							
2	Rated Working Voltage Range		10 - 100 V dc							
3	Nominal Capacitance Range		0.47 - 4,700 μF							
4	Capacitance Tolerance		:	±20% (a	t +20°C,	120 Hz)				
5	Leakage Current		$I \le 0.01$ CV or 2 (μ A) after two mins. Application of rated working voltage at +20°C							
_	Dissipation Factor		Working Voltage (V)	10	16	25	35	50	100	
6	(tan δ) (120 Hz / +20°C)		tan δ Max.	0.12	0.1	0.08	0.07	0.06	0.05	
	Characteristics at Low Temperature	V	Vorking Voltage (V)	10	16	25	35	50	100	
7			-25°C / +25°C	3	2	2	2	2	2	
	(Stability at 120 Hz)		-55°C / +25°C	4	3	3	3	3	4	
8	High Temperature Loading	After 5,000 hours application of DC rated working voltage at +105°C, The capacitor shall meet the following limits: Post test requirements at +20°C. Leakage current ≤ the initial specified value								
			Capacitance ch	ange	≤ :	±15% of	nitial measured value			
		Dissipation factor (tan δ) $\leq 150\%$ of initial specified value					alue			
9	Shelf Life	After storage for 1,000 hours at +105°C with no voltage applied. Post test requirements at +20°C same limits as high temperature loading.								
10	Solvent Proof	dipped	This capacitor can withstand circuit-board cleaning within 5 mins. dipped in Freon TE,TES, at 40°C (ultrasonic also permitted) or in the steam of these cleaners.							

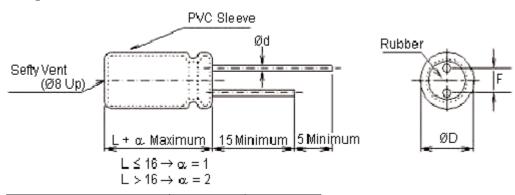


Electrolytic Capacitors

GLR Series



Diagram of Dimensions



ØD (+ 0.5 Maximum)	10	16
F (±0.5)	5	7.5
Ød (±0.02)	0.6	0.8

Dimensions : Millimetres

Case Size Table ØD × L (mm)

W V (SV) μF	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	100 (125)
0.47	-	-	-	-		
1	-	-	-	-		6.3 × 11
2.2	-	-	-	-	5 × 11	
3.3	-	-	-	-	3 ^ 11	8 × 11
4.7	-	-	-	-		0 ^ 11
10	-	-	-	5 × 11		10 × 13
22	-	-	5 × 11		6.3 × 11	10 × 16
33	-	5 × 11	6.3 × 11	6.3 × 11	8 × 11	10 × 21
47	5 × 11	6.3 × 11	0.5 ^ 11		8 × 16	10 × 26
68	100		0 v 16	8 × 16	0 ^ 10	13 × 26
100		8 × 16	8 × 16	0 × 10	10 × 13	13 × 32
220	8 × 16		10 × 13	10 × 21	10 × 26	16 × 36
330		10 × 13	10 × 21	10 × 26	13 × 26	18 × 42
470	10 × 13	10 × 21	10 × 26	13 × 26	13 × 32	-
680	10 × 21	10 × 26	13 × 26	13 × 32	13 × 42	-
1,000	10 ^ 21	13 × 26	13 × 32	13 × 42	16 × 42	-
2,200	13 × 26	13 × 32	13 × 42	16 × 42	-	-
3,300	13 × 25	13 × 42	16 × 42	-	-	-
4,700	16 × 32	16 × 42	-	-	-	-

Dimensions : Millimetres





Electrolytic Capacitors GLR Series



Maximum Ripple Current (mA) rms Maximum (100 kHz, +105°C)

W V (SV) µF	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	100 (125)
0.47	-	-	-	-	5	7
1	-	-	-	-	10	12
2.2	-	-	-	-	25	28
3.3	-	-	-	-	43	50
4.7	-	-	-	-	48	53
10	-	-	-	70	79	90
22	-	-	100	110	118	320
33	-	105	120	135	250	380
47	105	150	160	250	360	450
68	175	250	250	370	400	600
100	250	300	390	400	500	750
220	410	450	600	700	900	1,100
330	500	600	800	950	1,200	1,600
470	650	750	1,000	1,200	1,550	-
680	830	1,000	1,200	1,600	2,100	-
1,000	1,000	1,300	1,800	2,200	2,500	-
2,200	1,650	2,500	2,200	2,800	-	-
3,300	2,000	2,700	3,100	-	-	-
4,700	2,500	-	-	-	-	-

Maximum Impedance Maximum (100 kHz, +25°C)

W V (SV) μF	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	100 (125)
0.47	-	-	-	-	5.4	5.4
1	-	-	-	-	2.3	2.3
2.2	-	-	-	-	1.9	1.8
3.3	-	-	-	-	1.5	1.4
4.7	-	-	-	-	1.4	1.3
10	-	-	-	1.5	1.2	0.7
22	-	-	1.2	0.8	0.75	0.65
33	-	1.2	0.8	0.7	0.65	0.45
47	1.2	0.8	0.7	0.65	0.49	0.398
68	0.9	0.7	0.4	0.38	0.35	0.32
100	0.7	0.35	0.33	0.321	0.298	0.254
220	0.19	0.182	0.175	0.168	0.158	0.123
330	0.175	0.156	0.145	0.138	0.127	0.102

Dimensions : Millimetres





Electrolytic Capacitors GLR Series



Maximum Impedance Maximum (100 kHz, +25°C)

W V (SV) μF	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	100 (125)
470	0.135	0.12	0.115	0.102	0.096	-
680	0.1	0.09	0.085	0.08	0.074	-
1,000	0.085	0.08	0.076	0.07	0.069	-
2,200	0.056	0.05	0.045	0.04	-	-
3,300	0.048	0.045	0.036	-	-	-
4,700	0.038	0.035	-	-	-	-

Dimensions : Millimetres

Part Number Table

Description	Part Number
CAPACITOR, 100uF, 10V	MCGLR10V107M5X11
CAPACITOR, 220uF, 10V	MCGLR10V227M6.3X11
CAPACITOR, 330uF, 10V	MCGLR10V337M8X11
CAPACITOR, 470uF, 10V	MCGLR10V477M8X11
CAPACITOR, 1000uF, 10V	MCGLR10V108M10X16
CAPACITOR, 2200uF, 10V	MCGLR10V228M13X26
CAPACITOR, 3300uF, 10V	MCGLR10V338M13X25
CAPACITOR, 4700uF, 10V	MCGLR10V478M16X26
CAPACITOR, 33uF, 16V	MCGLR16V336M5X11
CAPACITOR, 47uF, 16V	MCGLR16V476M5X11
CAPACITOR, 100uF, 16V	MCGLR16V107M6.3X11
CAPACITOR, 220uF, 16V	MCGLR16V227M8X11
CAPACITOR, 330uF, 16V	MCGLR16V337M8X14
CAPACITOR, 470uF, 16V	MCGLR16V477M10X16
CAPACITOR, 1000uF, 16V	MCGLR16V108M10X16
CAPACITOR, 2200uF, 16V	MCGLR16V228M13X26
CAPACITOR, 3300uF, 16V	MCGLR16V338M16X32
CAPACITOR, 4700uF, 16V	MCGLR16V478M16X36
CAPACITOR, 33uF, 25V	MCGLR25V336M6.3X11
CAPACITOR, 47uF, 25V	MCGLR25V476M6.3X11
CAPACITOR, 100uF, 25V	MCGLR25V107M8X11
CAPACITOR, 220uF, 25V	MCGLR25V227M8X14
CAPACITOR, 330uF, 25V	MCGLR25V337M10X16
CAPACITOR, 470uF, 25V	MCGLR25V477M10X16
CAPACITOR, 1000uF, 25V	MCGLR25V108M13X21

multicomp

Electrolytic Capacitors GLR Series



Part Number Table

Description	Part Number
CAPACITOR, 33uF, 35V	MCGLR35V336M6.3X11
CAPACITOR, 47uF, 35V	MCGLR35V476M6.3X11
CAPACITOR, 100uF, 35V	MCGLR35V107M8X11
CAPACITOR, 220uF, 35V	MCGLR35V227M10X16
CAPACITOR, 330uF, 35V	MCGLR35V337M10X21
CAPACITOR, 470uF, 35V	MCGLR35V477M10X21
CAPACITOR, 1000uF, 35V	MCGLR35V108M16X26
CAPACITOR, 1uF, 50V	MCGLR50V105M5X11
CAPACITOR, 2.2uF, 50V	MCGLR50V225M5X11
CAPACITOR, 3.3uF, 50V	MCGLR50V335M5X11
CAPACITOR, 4.7uF, 50V	MCGLR50V475M5X11
CAPACITOR, 10uF, 50V	MCGLR50V106M5X11
CAPACITOR, 22uF, 50V	MCGLR50V226M5X11
CAPACITOR, 33uF, 50V	MCGLR50V336M6.3X11
CAPACITOR, 47uF, 50V	MCGLR50V476M8X11
CAPACITOR, 100uF, 50V	MCGLR50V107M10X13
CAPACITOR, 220uF, 50V	MCGLR50V227M10X21
CAPACITOR, 330uF, 50V	MCGLR50V337M13X21
CAPACITOR, 470uF, 50V	MCGLR50V477M13X26
CAPACITOR, 1000uF, 50V	MCGLR50V108M16X32
CAPACITOR, 1uF, 100V	MCGLR100V105M5X11
CAPACITOR, 2.2uF, 100V	MCGLR100V225M5X11
CAPACITOR, 3.3uF, 100V	MCGLR100V335M5X11
CAPACITOR, 4.7uF, 100V	MCGLR100V475M5X11
CAPACITOR, 10uF, 100V	MCGLR100V106M6.3X11
CAPACITOR, 22uF, 100V	MCGLR100V226M8X12
CAPACITOR, 33uF, 100V	MCGLR100V336M8X14
CAPACITOR, 47uF, 100V	MCGLR100V476M10X17
CAPACITOR, 100uF, 100V	MCGLR100V107M10X20

Important Notice: This data sheet and its contents (the "Information") belong to the members of the Premier Famell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheets should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Famell plc 2011.



