Low Impedance/Low ESR Capacitors MCGLR Series



Features:

- Material : Aluminium.
- Low ESR.
- MCGLR 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.

Specifications:

Item		nce										
Operating Temperature Range	-55°C to+105°C											
Rated Working Voltage Range	6.3V DC to 100V DC											
Nominal Capacitance Range	0.47µF to 4,700µF											
Capacitance Tolerance	±20% (at+20°C, 120Hz)											
Leakage Current	I≤0.01CV or 3(μA) after three minutes Application of rated working voltage at +20°C											
Dissipation Factor(tano)	Working Voltage (V)	6.3	10	16	25	35	50	63	100			
(120Hz\+20°C)	tanō max.	0.18	0.12	0.1	0.08	0.07	0.06	0.05	0.05			
	Working Voltage (V)	6.3	10	16	25	35	50	63	100			
Characteristics at Low Temperature	-25°C/+20°C	4	3	2	2	2	2	2	2			
	-40°C/+20°C	8	4	3	3	35 50 63 2 2 2 3 3 4 e at +105°C,		4	4			
	After 5,000hrs. application of DC rated working voltage at +105°C, The capacitor shall meet the following limits:											
High Temperature Loading	Leakage current		≤ tł	≤ the Initial specified value								
	Capacitance change	≤ ±	$\leq \pm 15\%$ of initial measured value									
	Dissipation Factor (ta	≤15	≤150% of initial specified value									
Shelf Life	After storage for 1000hrs. at +105°C with no voltage applied. Post test requirements at +20°C Same limits as high temperature loading.											
Solvent proof	This capacitor can withstand circuit-board cleaning within 5 min. dipped in Freon TE, TES, at 40°C (ultrasonic also permitted) or in the steam of these cleaners.											

Diagram of Dimensions



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		able														<u>e</u>	Ø D × I	<u> (mn</u>
(S	SV)	6.3		1	D	1	16		25		35		50		63		10	0
μF 🔷	\leq	(8)		(1:	3)	(2	20)	(;	32)		(44)		(63)		(79)	(12	:5)
1													5 × 11	1			5 ×	11
2.2													5 × 11	1			5 ×	11
3.3													5 × 11	1			5 ×	11
4.7													5 × 11	1			5 ×	11
10													5 × 11	1			6.3 :	× 11
22													5 × 11	1			8 ×	12
33						5、	× 11	6.3	× 11	6	.3 × ′	11	6.3 × 1	1			8 ×	14
47						5、	× 11	6.3	× 11	6	.3 × 1	11	8 × 11	1			10 ×	: 17
68			ĺ					1										
100			Ì	5 ×	11	6.3	× 11	8	× 11		8 × 1 [.]	1	10 × 1	3			10 ×	: 20
220				6.3 >	< 11	8,	× 11	8:	× 14	1	0 × 1	6	10 × 2	1				
330				8 ×	11	8,	× 14	10	× 16	1	0 × 2	1	13 × 2	1				
470				8 ×	11	10	× 16	10	× 16	1	0 × 2	1	13 × 2	6				
680			İ					1		1				†				
1,000				10 ×	16	10	× 16	13	× 21	1	6 × 2	6	16 × 3	2				
2,200				13 ×	26	13	× 26	1										
3,300				13 ×	25	16	× 32											
4,700				16 ×	26	16	× 36			1								
lax. Rip	ple C	urren	t	[mA]rm	s max	.(100kl	Hz, +1	05°C)	Мах	. Imj	peda	nce	[Ω]m	ax.(10)0kHz, -	+25°C)		
W.V.(SV)	6.3 (8)	10 (13)	16	25 (32)	35	50 (63)	63 (79)	100	W.V	.(SV)	6.3 (8)	10	16	25	35	50 (63)	63 (79)	100
0.47	(0)	(,	(_0)	(0_)	(++)	(00)	(,	(0)	0	47	(0)	(,	(_0)	(02)	/ (/	(00)	()	1.20
1.0						45		45	1	.0						4		4
2.2						45		45	2	.2						4		4
3.3						50		45	3	.3						3.5		3.5
4.7				1		55		100	4	.7			1			3	1	3
10			İ	1		68		105	1	10						2.2	1	2.2
22			Ì	1		70		170	2	22			1			2.2	İ	2.2
33			110	185	185	190		210	3	33			1.4	0.7	0.6	0.6		0.6
47			108	185	185	320		350	2	17			1.4	0.6	0.6	0.35		0.35
68									6	68								
100		102	180	330	350	360		530	1	00		14	0.7	04	0.4	03		0.32

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180

280

300

690

1200

1200

1600

330

360

450

775

1300

1850

2070

360

450

520

950

450

600

600

1075

460

880

1090

1600

220

330

470

680

1,000

2,200

3,300

4,700



220

330

470

680

1,000

2,200

3,300

4,700

1.4

1.2

0.4

0.2

0.07

0.075

0.06

0.4

0.3

0.2

0.18

0.07

0.05

0.045

0.3

0.2

0.19

0.085

0.2

0.14

0.15

0.08

0.19

0.13

0.075

0.07

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Part Number Table

Description	Part Number	Description	Part Number		
Electrolytic Capacitor, 100µF, 10V, RAD	MCGLR10V107M5X11	Electrolytic Capacitor, 100µF, 35V, RAD	MCGLR35V107M8X11		
Electrolytic Capacitor, 220µF, 10V, RAD	MCGLR10V227M6.3X11	Electrolytic Capacitor, 220µF, 35V, RAD	MCGLR35V227M10X16		
Electrolytic Capacitor, 330µF, 10V, RAD	MCGLR10V337M8X11	Electrolytic Capacitor, 330µF, 35V, RAD	MCGLR35V337M10X21		
Electrolytic Capacitor, 470µF, 10V, RAD	MCGLR10V477M8X11	Electrolytic Capacitor, 470µF, 35V, RAD	MCGLR35V477M10X21		
Electrolytic Capacitor, 1000µF, 10V, RAD	MCGLR10V108M10X16	Electrolytic Capacitor, 1000µF, 35V, RAD	MCGLR35V108M16X26		
Electrolytic Capacitor, 2200µF, 10V, RAD	MCGLR10V228M13X26	Electrolytic Capacitor, 1µF, 50V, RAD	MCGLR50V105M5X11		
Electrolytic Capacitor, 3300µF, 10V, RAD	MCGLR10V338M13X25	Electrolytic Capacitor, 2.2µF, 50V, RAD	MCGLR50V225M5X11		
Electrolytic Capacitor, 4700µF, 10V, RAD	MCGLR10V478M16X26	Electrolytic Capacitor, 3.3µF, 50V, RAD	MCGLR50V335M5X11		
Electrolytic Capacitor, 33µF, 16V, RAD	MCGLR16V336M5X11	Electrolytic Capacitor, 4.7µF, 50V, RAD	MCGLR50V475M5X11		
Electrolytic Capacitor, 47µF, 16V, RAD	MCGLR16V476M5X11	Electrolytic Capacitor, 10µF, 50V, RAD	MCGLR50V106M5X11		
Electrolytic Capacitor, 100µF, 16V, RAD	MCGLR16V107M6.3X11	Electrolytic Capacitor, 22µF, 50V, RAD	MCGLR50V226M5X11		
Electrolytic Capacitor, 220µF, 16V, RAD	MCGLR16V227M8X11	Electrolytic Capacitor, 33µF, 50V, RAD	MCGLR50V336M6.3X11		
Electrolytic Capacitor, 330µF, 16V, RAD	MCGLR16V337M8X14	Electrolytic Capacitor, 47µF, 50V, RAD	MCGLR50V476M8X11		
Electrolytic Capacitor, 470µF, 16V, RAD	MCGLR16V477M10X16	Electrolytic Capacitor, 100µF, 50V, RAD	MCGLR50V107M10X13		
Electrolytic Capacitor, 1000µF, 16V, RAD	MCGLR16V108M10X16	Electrolytic Capacitor, 220µF, 50V, RAD	MCGLR50V227M10X21		
Electrolytic Capacitor, 2200µF, 16V, RAD	MCGLR16V228M13X26	Electrolytic Capacitor, 330µF, 50V, RAD	MCGLR50V337M13X21		
Electrolytic Capacitor, 3300µF, 16V, RAD	MCGLR16V338M16X32	Electrolytic Capacitor, 470µF, 50V, RAD	MCGLR50V477M13X26		
Electrolytic Capacitor, 4700µF, 16V, RAD	MCGLR16V478M16X36	Electrolytic Capacitor, 1000µF, 50V, RAD	MCGLR50V108M16X32		
Electrolytic Capacitor, 33µF, 25V, RAD	MCGLR25V336M6.3X11	Electrolytic Capacitor, 1µF, 100V, RAD	MCGLR100V105M5X11		
Electrolytic Capacitor, 47µF, 25V, RAD	MCGLR25V476M6.3X11	Electrolytic Capacitor, 2.2µF, 100V, RAD	MCGLR100V225M5X11		
Electrolytic Capacitor, 100µF, 25V, RAD	MCGLR25V107M8X11	Electrolytic Capacitor, 3.3µF, 100V, RAD	MCGLR100V335M5X11		
Electrolytic Capacitor, 220µF, 25V, RAD	MCGLR25V227M8X14	Electrolytic Capacitor, 4.7µF, 100V, RAD	MCGLR100V475M5X11		
Electrolytic Capacitor, 330µF, 25V, RAD	MCGLR25V337M10X16	Electrolytic Capacitor, 10µF, 100V, RAD	MCGLR100V106M6.3X11		
Electrolytic Capacitor, 470µF, 25V, RAD	MCGLR25V477M10X16	Electrolytic Capacitor, 22µF, 100V, RAD	MCGLR100V226M8X12		
Electrolytic Capacitor, 1000µF, 25V, RAD	MCGLR25V108M13X21	Electrolytic Capacitor, 33µF, 100V, RAD	MCGLR100V336M8X14		
Electrolytic Capacitor, 33µF, 35V, RAD	MCGLR35V336M6.3X11	Electrolytic Capacitor, 47µF, 100V, RAD	MCGLR100V476M10X17		
Electrolytic Capacitor, 47µF, 35V, RAD	MCGLR35V476M6.3X11	Electrolytic Capacitor, 100µF, 100V, RAD	MCGLR100V107M10X20		

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