

Aluminium Electrolytic – Radial — Continued

TWL Series – Low Leakage



- Miniature low leakage electrolytic
- High stability of capacitance value

Operating temperature -40°C to +85°C DC leakage current 0.002CV or 0.4µA
 Tolerance ±20% whichever is greater
 Ripple current measured at 120Hz 85°C Operating life expectancy 2000hrs 85°C

Permissible ripple current, please apply following factors for different frequencies:-

Frequency in Hz	60	120	500	1K	≥10K
Multiplier	0.8	1.0	1.20	1.30	1.50

Volt d.c.	Ripple µF	Dimensions H Dia.	Lead Dia.	Lead Pitch	Mftrs. List No.	Order Code	
16	10	40 11	5	0.5	2.0	10UF16V-16TWL10M0511	499-043
16	22	84 11	6.3	0.5	2.5	22UF16V-16TWL22M0611	499-055
16	47	140 11	8	0.6	3.5	47UF16V-16TWL47M0811	499-067
35	4.7	30 11	5	0.5	2.0	4.7UF35V-35TWL4R7M0511	499-079
35	10	60 11	6.3	0.5	2.5	10UF35V-35TWL10M0611	499-080
50	1.0	12 11	5	0.5	2.0	1UF50V-50TWL1M0511	499-109
50	2.2	21 11	5	0.5	2.0	2.2UF50V-50TWL2R2M0511	499-092

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Order Multiple=5		Price Each					
Volt d.c.	µF	Order Code	5+	50+	100+	500+	1000+
16	10	499-043					
16	22	499-055					
16	47	499-067					
35	4.7	499-079					
35	10	499-080					
50	1.0	499-109					
50	2.2	499-092					

ECRH Series – 105°C



- High temperature radial leaded electrolytic
- Supplied loose with straight leads



Operating temp -40°C to +105°C Tolerance ±20%
 DC leakage current I = 0.03CV Ripple current measured at 120Hz@85°C

10 Volt d.c.	Ripple µF	Dimensions H Dia.	Lead Dia.	Lead Pitch	Mftrs. List No.	Order Code
22	49	11 5	0.5	2.0	MCRH10V226M5X11	920-988
33	56	11 5	0.5	2.0	MCRH10V336M5X11	920-990
47	80	11 5	0.5	2.0	MCRH10V476M5X11	921-002
100	99	11 5	0.5	2.0	MCRH10V107M5X11	921-014
220	171	11 6.3	0.5	2.5	MCRH10V227M6X11	921-026
330	246	12 8	0.6	3.5	MCRH10V337M8X12	921-038
470	328	12 8	0.6	3.5	MCRH10V477M8X12	921-040
1000	570	16 10	0.6	5.0	MCRH10V108M10X16	921-051
2200	960	21 13	0.6	5.0	MCRH10V228M13X21	921-063
3300	1194	21 13	0.6	5.0	MRCH10V338M13X21	921-075
4700	1423	26 16	0.8	7.5	MRCH10V478M16X26	921-087

Order Multiple=5		Price Each					
10 Volt d.c.	µF	Order Code	5+	50+	100+	500+	1000+
22		920-988					
33		920-990					
47		921-002					
100		921-014					
220		921-026					
330		921-038					
470		921-040					
1000		921-051					
2200		921-063					
3300		921-075					
4700		921-087					

16 Volt d.c.	Ripple µF	Dimensions H Dia.	Lead Dia.	Lead Pitch	Mftrs. List No.	Order Code
10	39	11 5	0.5	2.0	MCRH16V106M5X11	921-099
22	49	11 5	0.5	2.0	MCRH16V226M5X11	921-105
33	56	11 5	0.5	2.0	MCRH16V336M5X11	921-117
47	76	11 5	0.5	2.0	MCRH16V476M5X11	921-129
100	129	12 6.3	0.5	2.5	MCRH16V107M6X11	921-130
220	225	12 8	0.6	3.5	MCRH16V227M8X12	921-142
330	295	11 8	0.6	3.5	MCRH16V337M8X11	921-154
470	392	13 10	0.6	5.0	MCRH16V477M10X13	921-166
1000	577	21 10	0.6	5.0	MCRH16V108M10X21	921-178
2200	1053	21 13	0.6	5.0	MCRH16V228M13X21	921-180
3300	1586	26 13	0.6	5.0	MRCH16V338M13X26	921-191
4700	1889	32 16	0.8	7.5	MRCH16V478M16X32	921-208

Order Multiple=5		Price Each					
16 Volt d.c.	µF	Order Code	5+	50+	100+	500+	1000+
10		921-099					
22		921-105					
33		921-117					
47		921-129					
100		921-130					
220		921-142					
330		921-154					
470		921-166					
1000		921-178					
2200		921-180					
3300		921-191					
4700		921-208					

25 Volt d.c.	Ripple µF	Dimensions H Dia.	Lead Dia.	Lead Pitch	Mftrs. List No.	Order Code
33	88	11 5	0.5	2.0	MCRH25V336M5X11	921-210
47	81	11 5	0.5	2.0	MCRH25V47655X11	921-221
100	137	11 6.3	0.5	2.5	MCRH25V107M6X11	921-233
220	200	11 8	0.6	3.5	MCRH25V227M8X11	921-245
330	347	13 10	0.6	5.0	MCRH25V336M10X13	921-257
470	458	16 10	0.6	5.0	MCRH25V477M10X16	921-269
1000	505	21 13	0.6	5.0	MCRH25V108M13X21	921-270
2200	1234	26 13	0.6	5.0	MCRH25V228M13X26	921-282
3300	1630	32 16	0.8	7.5	MCRH25V338M16X32	921-294

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Order Multiple=5		Price Each					
25 Volt d.c.	µF	Order Code	5+	50+	100+	500+	1000+
33		921-210					
47		921-221					
100		921-233					
220		921-245					
330		921-257					
470		921-269					
1000		921-270					
2200		921-282					
3300		921-294					

35 Volt d.c.	Ripple µF	Dimensions H Dia.	Lead Dia.	Lead Pitch	Mftrs. List No.	Order Code
4.7	22	11 5	0.5	2.0	MCRH35V475M5X11	921-300
10	39	11 5	0.5	2.0	MCRH35V106M5X11	921-312
22	60	11 5	0.5	2.0	MCRH35V226M5X11	921-324
33	72	11 5	0.5	2.0	MCRH35V336M5X11	921-336
47	101	11 6.3	0.5	2.5	MCRH35V476M6X11	921-348
100	172	11 8	0.6	3.5	MCRH35V107M8X11	921-350
220	300	13 10	0.6	5.0	MCRH35V227M10X13	921-361
330	417	16 10	0.6	5.0	MCRH35V337M10X16	921-373
470	535	21 10	0.6	5.0	MCRH35V477M10X21	921-385
1000	869	21 13	0.6	5.0	MCRH35V108M13X21	921-397
2200	1362	32 16	0.8	7.5	MCRH35V228M16X32	921-403

Order Multiple=5		Price Each					
35 Volt d.c.	µF	Order Code	5+	50+	100+	500+	1000+
4.7		921-300					
10		921-312					
22		921-324					
33		921-336					
47		921-348					
100		921-350					
220		921-361					
330		921-373					
470		921-385					
1000		921-397					
2200		921-403					

63 Volt d.c.	Ripple µF	Dimensions H Dia.	Lead Dia.	Lead Pitch	Mftrs. List No.	Order Code
1.0	12	11 5	0.5	2.0	MCRH63V105M5X11	921-415
2.2	20	11 5	0.5	2.0	MCRH63V225M5X11	921-427
3.3	27	11 5	0.5	2.0	MCRH63V335M5X11	921-439
4.7	30	11 5	0.5	2.0	MCRH63V475M5X11	921-440
10	50	11 5	0.5	2.0	MCRH63V106M5X11	921-452
22	85	11 6.3	0.5	2.5	MCRH63V226M6X11	921-464
33	105	11 6.3	0.5	2.5	MCRH63V336M6X11	921-476
47	146	12 8	0.6	3.5	MCRH63V476M8X12	921-488
100	285	13 10	0.6	5.0	MCRH63V107M10X13	921-490
220	460	21 10	0.6	5.0	MCRH63V227M10X21	921-506
330	551	21 13	0.6	5.0	MCRH63V337M13X21	921-518
470	768	26 13	0.6	5.0	MCRH63V477M13X26	921-520
1000	1435	32 16	0.8	7.5	MCRH63V108M16X32	921-531