



MCG series

- Standard
- Wide temperature
- RoHS Compliant

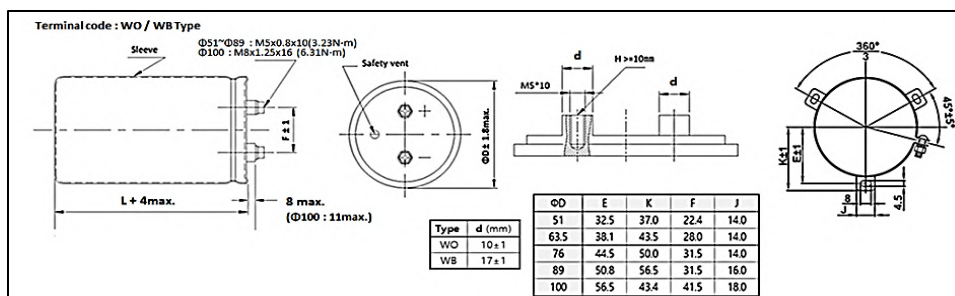


- 105 °C 2,000Hrs assured.
- Wide temperature
- RoHS compliant
- Halogen-free capacitors are also available.

Specifications

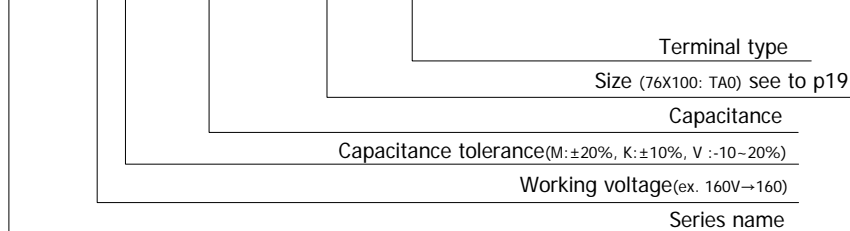
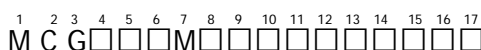
Item	Characteristics	
Rated Voltage Range	10 ~ 100 Vdc	160 ~ 450 Vdc
Operating Temperature Range	-40 ~ +105 °C	-25 ~ +105 °C
Capacitance Tolerance	±20% (M) (at 20 °C, 120Hz)	
Leakage Current	After 5 minutes application of rated voltage, leakage current not more than $I=0.02CV$ or 5mA whichever is smaller Where, I:Max. Leakage current(µA), C:Nominal capacitance(µF), V:Rated voltage(Vdc) (at 20 °C, 5min)	
Dissipation Factor(Tanδ)	The dissipation factor (Tanδ) shall not exceed the values shown in the ratings. (at 20 °C, 120Hz)	
Temperature characteristics (Max,impedance ratio)	Rated voltage (Vdc)	10 ~ 100 160 ~ 500
	Z(-25°C)/Z(20°C)	- 7
	Z(-40°C)/Z(20°C)	6 -
(at 120Hz)		
Load life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for specified life times at 105°C 2,000hrs. Capacitance change ≤±20% of the initial value Tan δ ≤200% of the initial specified value Leakage current ≤The initial specified value	
Shelf life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes at least 24 hours and not more than 48 hours before the measurements. Capacitance change ≤±20% of the initial value Tanδ ≤200% of the initial specified value Leakage current ≤The initial specified value	

Dimensions



- Printed white color letter on black sleeve

Code numbering system



∅35	P
∅51	R
∅63.5	S
∅76	T
∅89	U
∅100	V



MCG series

Standard Ratings

Note1) Ripple current = Arms/105°C,120Hz

WV (Vdc)	Cap (uF)	Size ØxL (mm)	Tanδ	Ripple ¹⁾	Code No
10	22,000	35 x 50	0.70	5.1	MCG010□223P50WOR
	27,000	35 x 50	0.70	5.4	MCG010□273P50WOR
	33,000	35 x 60	0.70	6.2	MCG010□333P60WOR
	39,000	35 x 80	0.70	6.6	MCG010□393P80WOR
	47,000	35 x 80	0.70	7.2	MCG010□473P80WOR
	56,000	35 x 80	0.70	7.8	MCG010□563P80WOR
	68,000	35 x 100	0.70	8.9	MCG010□683PA0WOR
	82,000	35 x 100	0.70	9.3	MCG010□823PA0WOR
	100,000	35 x 120	0.70	11.2	MCG010□104PC0WOR
	120,000	51 x 80	0.75	11.6	MCG010□124R80WOR
	150,000	51 x 100	0.80	13.9	MCG010□154RA0WOR
	180,000	51 x 120	0.80	16.5	MCG010□184RA0WOR
	220,000	51 x 120	0.85	17.6	MCG010□224RC0WOR
	270,000	63.5 x 120	1.00	20.6	MCG010□274SC0WOR
	330,000	63.5 x 120	1.20	20.7	MCG010□334SC0WOR
	390,000	76 x 120	1.50	22.4	MCG010□394TC0WOR
	470,000	76 x 120	1.80	22.5	MCG010□474TC0WOR
	560,000	76 x 140	2.00	24.8	MCG010□564TE0WOR
680,000	89 x 140	2.40	27.3	MCG010□684UE0WOR	
16	18,000	35 x 50	0.45	4.4	MCG016□183P50WOR
	22,000	35 x 50	0.45	4.9	MCG016□223P50WOR
	27,000	35 x 60	0.45	5.8	MCG016□273P60WOR
	33,000	35 x 60	0.45	6.0	MCG016□333P60WOR
	39,000	35 x 80	0.45	7.1	MCG016□393P80WOR
	47,000	35 x 80	0.50	7.5	MCG016□473P80WOR
	56,000	35 x 100	0.50	8.8	MCG016□563PA0WOR
	68,000	35 x 100	0.55	9.2	MCG016□683PA0WOR
	82,000	51 x 80	0.55	11.2	MCG016□823R80WOR
	100,000	51 x 80	0.65	11.3	MCG016□104R80WOR
	120,000	51 x 100	0.65	13.8	MCG016□124RA0WOR
	150,000	51 x 120	0.70	16.1	MCG016□154RC0WOR
	180,000	51 x 120	0.80	16.5	MCG016□184RC0WOR
	220,000	63.5 x 120	0.85	20.2	MCG016□224SC0WOR
	270,000	63.5 x 120	1.00	20.6	MCG016□274SC0WOR
	330,000	76 x 120	1.30	22.2	MCG016□334TC0WOR
	390,000	76 x 120	1.50	22.4	MCG016□394TC0WOR
	470,000	76 x 140	1.60	25.4	MCG016□474TE0WOR
560,000	89 x 140	2.00	29.5	MCG016□564UE0WOR	
680,000	89 x 140	2.40	29.9	MCG016□684UE0WOR	
25	12,000	35 x 50	0.35	3.9	MCG025□123P50WOR
	15,000	35 x 50	0.35	4.3	MCG025□153P50WOR
	18,000	35 x 60	0.35	5.0	MCG025□183P60WOR
	22,000	35 x 60	0.35	5.6	MCG025□223P60WOR
	27,000	35 x 80	0.35	6.7	MCG025□273P80WOR
	33,000	35 x 80	0.40	7.0	MCG025□333P80WOR
	39,000	35 x 100	0.40	8.2	MCG025□393PA0WOR
	47,000	35 x 120	0.40	9.8	MCG025□473PC0WOR
	56,000	51 x 80	0.40	10.2	MCG025□563R80WOR
	68,000	51 x 100	0.45	11.2	MCG025□683RA0WOR
	82,000	51 x 120	0.50	11.8	MCG025□823RC0WOR
	100,000	51 x 120	0.50	15.5	MCG025□104RC0WOR
	120,000	63.5 x 100	0.65	15.6	MCG025□124SA0WOR
	150,000	63.5 x 120	0.65	18.8	MCG025□154SC0WOR
	180,000	63.5 x 120	0.80	19.8	MCG025□184SC0WOR
	220,000	76 x 120	0.85	22.4	MCG025□224TC0WOR
	270,000	76 x 120	1.00	22.8	MCG025□274TC0WOR
	330,000	76 x 140	1.20	24.3	MCG025□334TE0WOR
390,000	89 x 140	1.50	26.1	MCG025□394UE0WOR	
35	8,200	35 x 50	0.30	3.5	MCG035□822P50WOR
	10,000	35 x 50	0.30	3.8	MCG035□103P50WOR
	12,000	35 x 60	0.30	4.4	MCG035□123P60WOR
	15,000	35 x 60	0.30	4.9	MCG035□153P60WOR

WV (Vdc)	Cap (uF)	Size ØxL (mm)	Tanδ	Ripple ¹⁾	Code No
35	18,000	35 x 80	0.30	6.0	MCG035□183P80WOR
	22,000	35 x 80	0.30	7.1	MCG035□223P80WOR
	27,000	35 x 100	0.30	7.9	MCG035□273PA0WOR
	33,000	35 x 120	0.30	9.5	MCG035□333PC0WOR
	39,000	51 x 80	0.30	9.7	MCG035□393R80WOR
	47,000	51 x 100	0.35	11.8	MCG035□473RA0WOR
	56,000	51 x 100	0.35	12.0	MCG035□563RA0WOR
	68,000	51 x 120	0.40	14.3	MCG035□683RC0WOR
	82,000	63.5 x 100	0.45	15.5	MCG035□823SA0WOR
	100,000	63.5 x 120	0.45	17.3	MCG035□104SC0WOR
	120,000	63.5 x 120	0.55	18.5	MCG035□124SC0WOR
	150,000	76 x 120	0.65	19.4	MCG035□154TC0WOR
	180,000	76 x 120	0.80	20.8	MCG035□184TC0WOR
	220,000	76 x 140	0.80	24.6	MCG035□224TE0WOR
	270,000	89 x 140	1.00	26.8	MCG050□274UE0WOR
50	3,900	35 x 50	0.20	2.9	MCG050□392P50WOR
	4,700	35 x 50	0.20	3.3	MCG050□472P50WOR
	5,600	35 x 50	0.20	3.5	MCG050□562P50WOR
	6,800	35 x 50	0.25	3.7	MCG050□682P50WOR
	8,200	35 x 60	0.25	4.0	MCG050□822P60WOR
	10,000	35 x 80	0.25	4.8	MCG050□103P80WOR
	12,000	35 x 80	0.25	5.4	MCG050□123P80WOR
	15,000	35 x 80	0.25	6.0	MCG050□153P80WOR
	18,000	35 x 80	0.25	6.3	MCG050□183P80WOR
	22,000	35 x 100	0.25	7.0	MCG050□223PA0WOR
	27,000	51 x 80	0.25	9.6	MCG050□273R80WOR
	33,000	51 x 100	0.25	11.7	MCG050□333RA0WOR
	39,000	51 x 120	0.25	13.8	MCG050□393RC0WOR
	47,000	51 x 120	0.30	14.6	MCG050□473RC0WOR
	56,000	63.5 x 100	0.35	15.6	MCG050□563SA0WOR
	68,000	63.5 x 120	0.35	17.4	MCG050□683SC0WOR
	82,000	76 x 120	0.40	19.8	MCG050□823TC0WOR
	100,000	76 x 120	0.45	20.5	MCG050□104TC0WOR
120,000	76 x 120	0.55	22.1	MCG050□124TC0WOR	
150,000	89 x 140	0.60	25.1	MCG050□154UE0WOR	
180,000	89 x 140	0.75	25.2	MCG050□184UE0WOR	
63	2,700	35 x 50	0.20	2.4	MCG063□272P50WOR
	3,300	35 x 50	0.20	2.6	MCG063□332P50WOR
	3,900	35 x 50	0.20	2.9	MCG063□392P50WOR
	4,700	35 x 50	0.20	3.3	MCG063□472P50WOR
	5,600	35 x 60	0.20	3.7	MCG063□562P60WOR
	6,800	35 x 60	0.20	4.1	MCG063□682P60WOR
	8,200	35 x 80	0.20	4.9	MCG063□822P80WOR
	10,000	35 x 80	0.25	5.1	MCG063□103P80WOR
	12,000	35 x 100	0.25	5.8	MCG063□123PA0WOR
	15,000	35 x 120	0.25	6.9	MCG063□153PC0WOR
	18,000	35 x 120	0.25	7.2	MCG063□183PC0WOR
	22,000	51 x 80	0.25	7.8	MCG063□223R80WOR
27,000	51 x 120	0.25	11.4	MCG063□273RC0WOR	
33,000	51 x 120	0.25	12.6	MCG063□333RC0WOR	
39,000	63.5 x 100	0.30	13.1	MCG063□393SA0WOR	
47,000	63.5 x 120	0.30	15.6	MCG063□473SC0WOR	
56,000	63.5 x 120	0.30	17.1	MCG063□563SC0WOR	
68,000	76 x 120	0.35	19.3	MCG063□683TC0WOR	
82,000	76 x 140	0.40	21.0	MCG063□823TE0WOR	
100,000	76 x 140	0.50	21.5	MCG063□104TE0WOR	
120,000	89 x 140	0.60	22.9	MCG063□124UE0WOR	
80	2,200	35 x 50	0.15	2.5	MCG080□222P50WOR
	2,700	35 x 50	0.15	2.8	MCG080□272P50WOR
	3,300	35 x 50	0.15	3.2	MCG080□332P50WOR
	3,900	35 x 60	0.15	3.6	MCG080□392P60WOR
	4,700	35 x 60	0.15	3.9	MCG080□472P60WOR



MCG series

Standard Ratings

Note1) Ripple current = Arms/105°C,120Hz

WV (Vdc)	Cap (uF)	Size ØxL (mm)	Tanδ	Ripple ¹⁾	Code No
80	5,600	35 x 80	0.15	4.7	MCG080□562P80WOR
	6,800	35 x 80	0.15	5.1	MCG080□682P80WOR
	8,200	35 x 100	0.20	5.4	MCG080□822PA0WOR
	10,000	35 x 120	0.20	6.4	MCG080□103PC0WOR
	12,000	51 x 80	0.20	7.0	MCG080□123R80WOR
	15,000	51 x 100	0.20	8.7	MCG080□153RA0WOR
	18,000	51 x 120	0.20	10.4	MCG080□183RC0WOR
	22,000	51 x 120	0.20	11.6	MCG080□223RC0WOR
	27,000	63.5 x 100	0.25	12.0	MCG080□273SA0WOR
	33,000	76 x 100	0.25	14.6	MCG080□333TA0WOR
	39,000	76 x 100	0.30	15.2	MCG080□393TA0WOR
	47,000	76 x 120	0.30	17.3	MCG080□473TC0WOR
	56,000	76 x 120	0.30	19.0	MCG080□563TC0WOR
	68,000	76 x 140	0.35	20.7	MCG080□683TE0WOR
82,000	89 x 140	0.40	23.2	MCG080□823UE0WOR	
100	1,800	35 x 50	0.10	2.8	MCG100□182P50WOR
	2,200	35 x 50	0.10	3.2	MCG100□222P50WOR
	2,700	35 x 60	0.10	3.7	MCG100□272P60WOR
	3,300	35 x 80	0.10	4.4	MCG100□332P80WOR
	3,900	35 x 80	0.12	4.7	MCG100□392P80WOR
	4,700	35 x 100	0.12	5.3	MCG100□472PA0WOR
	5,600	35 x 100	0.12	5.7	MCG100□562PA0WOR
	6,800	35 x 120	0.15	6.1	MCG100□682PC0WOR
	8,200	51 x 80	0.15	6.7	MCG100□822R80WOR
	10,000	51 x 100	0.15	8.2	MCG100□103RA0WOR
	12,000	51 x 120	0.15	9.8	MCG100□123RC0WOR
	15,000	51 x 120	0.15	10.9	MCG100□153RC0WOR
	18,000	63.5 x 100	0.20	11.6	MCG100□183TA0WOR
	22,000	63.5 x 120	0.20	13.1	MCG100□223TC0WOR
	27,000	63.5 x 120	0.25	14.4	MCG100□273TC0WOR
	33,000	63.5 x 120	0.25	16.0	MCG100□333TC0WOR
39,000	63.5 x 140	0.30	16.9	MCG100□393TE0WOR	
47,000	89 x 140	0.30	20.3	MCG100□473UE0WOR	
56,000	89 x 140	0.30	22.2	MCG100□563UE0WOR	
160	560	35 x 50	0.15	1.3	MCG160□561P50WOR
	680	35 x 50	0.15	1.4	MCG160□681P50WOR
	820	35 x 50	0.15	1.5	MCG160□821P50WOR
	1,000	35 x 50	0.15	1.7	MCG160□102P50WOR
	1,200	35 x 60	0.15	2.0	MCG160□122P60WOR
	1,500	35 x 60	0.15	2.2	MCG160□153P60WOR
	1,800	35 x 80	0.15	2.6	MCG160□183P80WOR
	2,200	35 x 80	0.15	2.9	MCG160□222P80WOR
	2,700	35 x 100	0.15	3.5	MCG160□272PA0WOR
	3,300	35 x 120	0.15	4.0	MCG160□332PC0WOR
	3,900	51 x 80	0.20	4.1	MCG160□392R80WOR
	4,700	51 x 100	0.20	4.8	MCG160□472RA0WOR
	5,600	51 x 100	0.20	5.4	MCG160□562RA0WOR
	6,800	51 x 120	0.20	6.4	MCG160□682RA0WOR
	8,200	63.5 x 100	0.20	7.4	MCG160□822SA0WOR
	10,000	63.5 x 120	0.20	8.8	MCG160□103SA0WOR
	12,000	76 x 100	0.20	9.9	MCG160□123TA0WOR
	15,000	76 x 120	0.20	12.0	MCG160□153TC0WOR
18,000	76 x 140	0.20	14.1	MCG160□183TE0WOR	
22,000	89 x 140	0.25	15.2	MCG160□223UE0WOR	
27,000	89 x 140	0.25	16.8	MCG160□273UE0WOR	
200	330	35 x 50	0.15	0.9	MCG200□331P50WOR
	390	35 x 50	0.15	1.1	MCG200□391P50WOR
	470	35 x 50	0.15	1.2	MCG200□471P50WOR
	560	35 x 50	0.15	1.3	MCG200□561P50WOR
	680	35 x 50	0.15	1.4	MCG200□681P50WOR
	820	35 x 50	0.15	1.5	MCG200□821P50WOR
200	1,000	35 x 60	0.15	1.8	MCG200□102P60WOR

WV (Vdc)	Cap (uF)	Size ØxL (mm)	Tanδ	Ripple ¹⁾	Code No
200	1,200	35 x 60	0.15	2.0	MCG200□122P60WOR
	1,500	35 x 80	0.15	2.4	MCG200□152P80WOR
	1,800	35 x 80	0.15	2.6	MCG200□182P80WOR
	2,200	35 x 100	0.15	2.8	MCG200□222PA0WOR
	2,700	35 x 120	0.15	3.8	MCG200□372PC0WOR
	3,300	51 x 80	0.15	4.3	MCG200□332R80WOR
	3,900	51 x 100	0.15	5.1	MCG200□392RA0WOR
	4,700	63.5 x 100	0.20	5.6	MCG200□472SA0WOR
	5,600	63.5 x 100	0.20	6.1	MCG200□562SA0WOR
	6,800	63.5 x 120	0.20	7.2	MCG200□682SC0WOR
	8,200	63.5 x 120	0.20	8.0	MCG200□822SC0WOR
	10,000	76 x 120	0.20	9.8	MCG200□103TC0WOR
	12,000	76 x 120	0.20	10.7	MCG200□123TC0WOR
	15,000	76 x 120	0.20	11.8	MCG200□153TC0WOR
18,000	89 x 140	0.25	13.8	MCG035□183UE0WOR	
250	270	35 x 50	0.15	0.8	MCG250□271P50WOR
	330	35 x 50	0.15	0.9	MCG250□331P50WOR
	390	35 x 50	0.15	1.1	MCG250□391P50WOR
	470	35 x 50	0.15	1.2	MCG250□471P50WOR
	560	35 x 50	0.15	1.3	MCG250□561P50WOR
	680	35 x 60	0.15	1.5	MCG250□681P60WOR
	820	35 x 80	0.15	1.6	MCG250□821P80WOR
	1,000	35 x 80	0.20	1.7	MCG250□102P80WOR
	1,200	35 x 80	0.20	1.8	MCG250□122P80WOR
	1,500	35 x 100	0.20	2.1	MCG250□152PA0WOR
	1,800	35 x 120	0.20	2.5	MCG250□182PC0WOR
	2,200	35 x 120	0.20	2.8	MCG250□222PC0WOR
	2,700	51 x 100	0.20	3.5	MCG250□332RA0WOR
	3,300	51 x 120	0.20	4.2	MCG250□332RC0WOR
	3,900	51 x 120	0.20	4.6	MCG250□392RC0WOR
	4,700	63.5 x 120	0.20	5.4	MCG250□472SC0WOR
	5,600	63.5 x 120	0.20	6.3	MCG250□562SC0WOR
	6,800	76 x 120	0.20	7.1	MCG250□682TC0WOR
8,200	76 x 120	0.20	8.4	MCG250□822TC0WOR	
10,000	76 x 140	0.20	9.7	MCG250□103TE0WOR	
12,000	89 x 140	0.20	12.0	MCG250□123UE0WOR	
15,000	89 x 140	0.20	13.2	MCG250□153UE0WOR	
315	180	35 x 50	0.10	0.8	MCG315□181P50WOR
	220	35 x 50	0.10	0.9	MCG315□221P50WOR
	270	35 x 50	0.10	1.1	MCG315□271P50WOR
	330	35 x 50	0.10	1.2	MCG315□331P50WOR
	390	35 x 50	0.10	1.3	MCG315□391P50WOR
	470	35 x 60	0.10	1.5	MCG315□471P60WOR
	560	35 x 60	0.10	1.6	MCG315□561P60WOR
	680	35 x 80	0.10	1.7	MCG315□681P80WOR
	820	35 x 80	0.15	1.8	MCG315□821P80WOR
	1,000	35 x 100	0.15	2.1	MCG315□102PA0WOR
	1,200	35 x 120	0.15	2.5	MCG315□122PC0WOR
	1,500	51 x 80	0.15	2.8	MCG315□152R80WOR
	1,800	51 x 100	0.15	3.5	MCG315□182RA0WOR
	2,200	51 x 100	0.15	4.2	MCG315□222RA0WOR
	2,700	51 x 120	0.15	4.6	MCG315□272RC0WOR
	3,300	63.5 x 100	0.15	5.4	MCG315□332SA0WOR
	3,900	63.5 x 120	0.15	6.3	MCG315□392SC0WOR
	4,700	76 x 100	0.15	7.1	MCG315□472TA0WOR
5,600	76 x 120	0.15	8.4	MCG315□562TC0WOR	
6,800	89 x 130	0.15	9.7	MCG315□682SD0WOR	
8,200	89 x 140	0.15	12.0	MCG315□822PE0WOR	
10,000	89 x 140	0.15	13.2	MCG315□103PE0WOR	
350	180	35 x 50	0.10	0.8	MCG350□181P50WOR
	220	35 x 50	0.10	0.9	MCG350□221P50WOR
	270	35 x 50	0.10	1.1	MCG350□271P50WOR



MCG series

Standard Ratings

Note1) Ripple current = Arms/105°C, 120Hz

WV (Vdc)	Cap (uF)	Size ØxL (mm)	Tanδ	Ripple ¹⁾	Code No
350	330	35 x 50	0.10	1.2	MCG350□331P50WOR
	390	35 x 50	0.10	1.2	MCG350□331P50WOR
	470	35 x 60	0.10	1.5	MCG350□471P60WOR
	560	35 x 80	0.10	1.7	MCG350□561P80WOR
	680	35 x 80	0.15	1.7	MCG350□681P80WOR
	820	35 x 100	0.15	1.9	MCG350□821PA0WOR
	1,000	35 x 120	0.15	2.3	MCG350□102PC0WOR
	1,200	51 x 80	0.15	2.5	MCG350□122R80WOR
	1,500	51 x 100	0.15	3.2	MCG350□152RA0WOR
	1,800	51 x 120	0.15	3.8	MCG350□182RC0WOR
	2,200	51 x 120	0.15	4.2	MCG350□222RC0WOR
	2,700	63.5 x 100	0.15	4.8	MCG350□272SA0WOR
	3,900	76 x 120	0.15	7.0	MCG350□392TC0WOR
	5,600	76 x 130	0.15	8.7	MCG350□562TD0WOR
6,800	76 x 140	0.15	10.0	MCG350□682TE0WOR	
8,200	89 x 140	0.15	12.0	MCG350□822UE0WOR	
400	180	35 x 50	0.10	0.8	MCG400□181P50WOR
	220	35 x 50	0.10	0.9	MCG400□221P50WOR
	270	35 x 50	0.10	1.1	MCG400□271P50WOR
	330	35 x 60	0.10	1.3	MCG400□331P60WOR
	390	35 x 60	0.10	1.3	MCG400□391P60WOR
	470	35 x 80	0.15	1.5	MCG400□471P80WOR
	560	35 x 80	0.15	1.5	MCG400□561P80WOR
	680	35 x 100	0.15	1.8	MCG400□681PA0WOR
	820	35 x 120	0.15	2.1	MCG400□821PC0WOR
	1,000	51 x 80	0.15	2.3	MCG400□102R80WOR
	1,200	51 x 100	0.15	2.8	MCG400□122RA0WOR
	1,500	51 x 120	0.15	3.5	MCG400□152RC0WOR
	2,200	63.5 x 100	0.15	4.4	MCG400□222SA0WOR
	3,300	63.5 x 120	0.15	5.8	MCG400□332SC0WOR
	4,700	76 x 130	0.15	8.0	MCG400□473SE0WOR
	5,600	89 x 140	0.15	9.9	MCG400□563UE0WOR
6,800	89 x 140	0.15	10.9	MCG400□683UE0WOR	
18,000	100 x 220	0.15	23.0	MCG400□184VM0WOR	
22,000	100 x 250	0.15	26.9	MCG400□224VP0WOR	
450	1,000	51 x 80	0.15	2.1	MCG450□102P80WOR
	1,200	51 x 100	0.15	2.6	MCG450□122PA0WOR
	1,500	51 x 120	0.15	3.3	MCG450□152PC0WOR
	1,800	51 x 120	0.15	3.6	MCG450□182PC0WOR
	2,200	63.5 x 100	0.15	4.1	MCG450□222SA0WOR
	3,300	63.5 x 120	0.15	5.5	MCG450□332SC0WOR
	3,900	76 x 120	0.15	6.2	MCG450□392TC0WOR
	4,700	76 x 130	0.15	7.6	MCG450□472TD0WOR
	5,600	89 x 140	0.15	9.3	MCG450□562UE0WOR
	15,000	100 x 220	0.15	19.8	MCG450□153VM0WOR
18,000	100 x 250	0.15	23.1	MCG450□183VP0WOR	