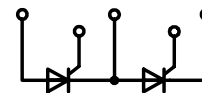


Thyristor Modules

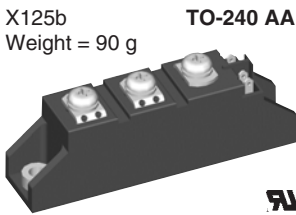


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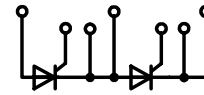


MCC...io8B

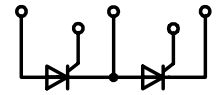
$I_{TAV} = 18-116 A$

Type	V_{RRM} V_{DRM} V	I_{TAV} @ T_C A °C	I_{TRMS} A	I_{TSM} 45°C 10 ms A	V_{TO} V	r_T mΩ	T_{VJM} °C	R_{thJC} per Chip K/W	R_{thCH} per Chip K/W	Fig. No.	Package style Outline drawings on page 188 - 224
MCC 19-08io1B MCC 19-12io1B MCC 19-14io1B MCC 19-16io1B	800 1200 1400 1600	18 85	40	400	0.85	18	125	1.3	0.2	X125b	 <p>X125b Weight = 90 g TO-240 AA</p>
MCC 19-08io8B MCC 19-12io8B MCC 19-14io8B MCC 19-16io8B	800 1200 1400 1600	18 85	40	400	0.85	18	125	1.3	0.2	X125c	
MCC 21-08io8B MCC 21-12io8B MCC 21-14io8B MCC 21-16io8B	800 1200 1400 1600	21 85	33	320	0.85	15	125	1.1	0.2	X125c	
MCC 26-08io1B MCC 26-12io1B MCC 26-14io1B MCC 26-16io1B	800 1200 1400 1600	27 85	50	520	0.85	11	125	0.88	0.2	X125b	
MCC 26-08io8B MCC 26-12io8B MCC 26-14io8B MCC 26-16io8B	800 1200 1400 1600	27 85	50	520	0.85	11	125	0.88	0.2	X125c	
MCC 44-08io1B MCC 44-12io1B MCC 44-14io1B MCC 44-16io1B MCC 44-18io1B	800 1200 1400 1600 1800	49 85	80	1150	0.85	5.3	125	0.53	0.2	X125b	
MCC 44-08io8B MCC 44-12io8B MCC 44-14io8B MCC 44-16io8B MCC 44-18io8B	800 1200 1400 1600 1800	49 85	80	1150	0.85	5.3	125	0.53	0.2	X125c	
MCC 56-08io1B MCC 56-12io1B MCC 56-14io1B MCC 56-16io1B MCC 56-18io1B	800 1200 1400 1600 1800	60 85	100	1500	0.85	3.7	125	0.45	0.2	X125b	
MCC 56-08io8B MCC 56-12io8B MCC 56-14io8B MCC 56-16io8B MCC 56-18io8B	800 1200 1400 1600 1800	60 85	100	1500	0.85	3.7	125	0.45	0.2	X125c	
MCC 72-08io1B MCC 72-12io1B MCC 72-14io1B MCC 72-16io1B MCC 72-18io1B	800 1200 1400 1600 1800	85 85	180	1700	0.85	3.2	125	0.3	0.2	X125b	
MCC 72-08io8B MCC 72-12io8B MCC 72-14io8B MCC 72-16io8B MCC 72-18io8B	800 1200 1400 1600 1800	85 85	180	1700	0.85	3.2	125	0.3	0.2	X125c	
MCC 94-20io1B MCC 94-22io1B	2000 2200	104 85	180	1700	0.85	3.2	125	0.22	0.2	X125b	
MCC 95-08io1B MCC 95-12io1B MCC 95-14io1B MCC 95-16io1B MCC 95-18io1B	800 1200 1400 1600 1800	116 85	180	2250	0.8	2.4	125	0.22	0.2	X125b	

Thyristor Modules, Dual

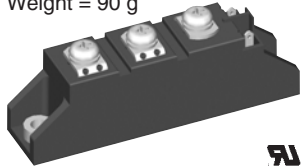

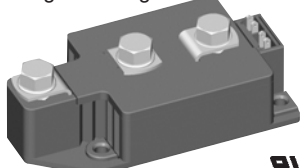
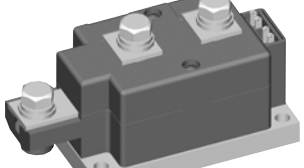
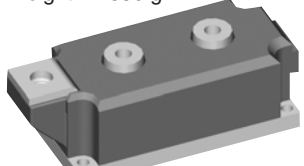




MCC...io1B



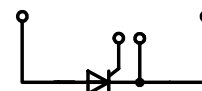
MCC...io8B

$I_{TAV} = 116-700 \text{ A}$

Type	V_{RRM} V_{DRM}	I_{TAV} @ T_C	I_{TRMS}	I_{TSM} 45°C 10 ms	V_{TO}	r_T	T_{VJM}	R_{thJC} per Chip	R_{thCH} per Chip	Fig. No.	Package style
► New	V	A °C	A	A	V	mΩ	°C	K/W	K/W		Outline drawings on page 188 - 224
MCC 95-08io8B MCC 95-12io8B MCC 95-14io8B MCC 95-16io8B MCC 95-18io8B	800 1200 1400 1600 1800	116 85	180	2250	0.8	2.4	125	0.22	0.2	X125c	X125c Weight = 90 g 
MCC 132-08io1 MCC 132-12io1 MCC 132-14io1 MCC 132-16io1 MCC 132-18io1	800 1200 1400 1600 1800	130 85	300	4750	0.8	1.5	125	0.23	0.1	X126a	
MCC 161-20io1 MCC 161-22io1	2000 2200	165 85	300	6000	0.8	1.6	125	0.155	0.07		X126a Weight 150 g
MCC 162-08io1 MCC 162-12io1 MCC 162-14io1 MCC 162-16io1 MCC 162-18io1	800 1200 1400 1600 1800	181 85	300	6000	0.88	1.15	125	0.155	0.07		
MCC 170-12io1 MCC 170-14io1 MCC 170-16io1 MCC 170-18io1	1200 1400 1600 1800	203 85	350	5400	0.8	1.0	130	0.164	0.04	X131a	
MCC 200-14io1 MCC 200-16io1 MCC 200-18io1	1400 1600 1800	216 85	340	8000	0.8	1.0	125	0.13	0.05	X126a	X129b Weight = 750 g
MCC 220-08io1 MCC 220-12io1 MCC 220-14io1 MCC 220-16io1 MCC 220-18io1	800 1200 1400 1600 1800	250 85	400	8500	0.9	1.0	140	0.139	0.04	X129b	
MCC 224-20io1 MCC 224-22io1	2000 2200	240 85	400	8000	0.8	0.76	130	0.139	0.04	X131a	
MCC 225-12io1 MCC 225-14io1 MCC 225-16io1 MCC 225-18io1	1200 1400 1600 1800	221 85	400	8000	0.8	0.76	130	0.157	0.04		X131a Weight = 750 g
MCC 250-08io1 MCC 250-12io1 MCC 250-14io1 MCC 250-16io1 MCC 250-18io1	800 1200 1400 1600 1800	287 85	450	9000	0.85	0.82	140	0.129	0.04	X129b	
MCC 255-12io1 MCC 255-14io1 MCC 255-16io1 MCC 255-18io1	1200 1400 1600 1800	250 85	450	9000	0.8	0.68	130	0.14	0.04	X131a	
MCC 310-08io1 MCC 310-12io1 MCC 310-14io1 MCC 310-16io1 MCC 310-18io1	800 1200 1400 1600 1800	320 85	500	9200	0.8	0.82	140	0.112	0.04	X129b	X136a Weight = 1550 g
MCC 312-12io1 MCC 312-14io1 MCC 312-16io1 MCC 312-18io1	1200 1400 1600 1800	320 85	520	9200	0.8	0.68	140	0.12	0.04	X131a	
MCC 500-12io1* MCC 500-14io1 MCC 500-16io1 MCC 500-18io1	1200 1400 1600 1800	500 89	785	18200 125°C	0.85	0.27	125	0.062	0.02	X136a	X136b Weight = 2100 g
MCC 500-22io1*	2200	500 80	1071	15400 125°C	0.88	0.46	125	0.062	0.02		
MCC 700-12io1W MCC 700-16io1W MCC 700-18io1W	1200 1600 1800	700 $T_W = 42^\circ\text{C}$	1331	18200 125°C	0.85	0.27	125	0.062	$R_{thJW} = 0.09$	X136b	


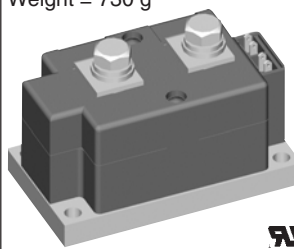
* for other configurations please contact factory

Thyristor Modules, Single

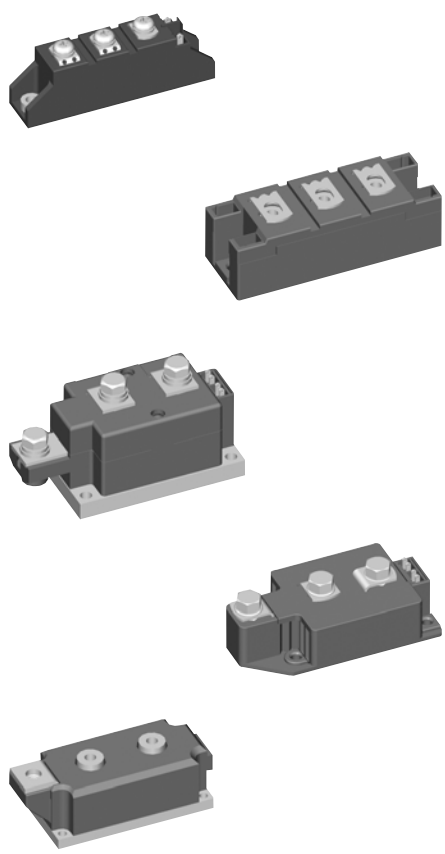


MCO

$I_{TAV} = 31-600 \text{ A}$

Type	V_{RRM} V_{DRM}	I_{TAV}	T_C	I_{TRMS}	I_{TSM} 45°C 10 ms	V_{TO}	r_T	T_{VJM}	R_{thJC} per Chip	R_{thCH} per Chip	Fig. No.	Package style
► New	V	A	°C	A	A	V	mΩ	°C	K/W	K/W		Outline drawings on page 188 - 224
MCO 25-12io6 MCO 25-16io6	1200 1600	31	80	49	370	0.85	14	150	1.1	0.5	X027a	X027a Weight = 30 g SOT-227B miniBLOC 
MCO 50-12io6 MCO 50-16io6	1200 1600	54	80	85	740	0.9	5.8	150	0.72	0.4		
► MCO 75-12io6 ► MCO 75-16io6	1200 1600	77	80	121	1070	0.85	5.5	150	0.45	0.2		
MCO 100-12io6 MCO 100-16io6	1200 1600	99	80	156	1400	0.85	4.5	150	0.35	0.15		
MCO 150-12io1 MCO 150-16io1	1200 1600	149	80	234	2000	0.8	3.8	150	0.2	0.1		
MCO 450-20io1 MCO 450-22io1	2000 2200	464	85	750	15000	0.77	0.42	130	0.072	0.024	X131b	X131b Weight = 730 g 
MCO 500-12io1 MCO 500-14io1 MCO 500-16io1 MCO 500-18io1	1200 1400 1600 1800	560	85	880	17000	0.8	0.38	140	0.072	0.024		
MCO 600-16io1 MCO 600-18io1 MCO 600-20io1 MCO 600-22io1	1600 1800 2000 2200	600	85	928	15000	0.77	0.42	140	0.065	0.02		

Optional Accessories for Thyristor / Diode Modules

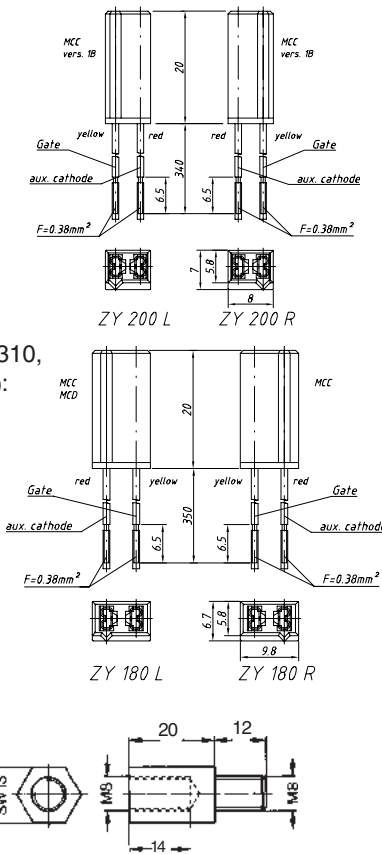


For module-types MCC 19, 26, 44, 56, 60, 72, 94 and 95 version 1:
 Keyed Gate Cathode twin plugs with wire length = 350 mm;
 gate = yellow, cathode = red
 Type **ZY 200 L** (L = Left for pin pair 4/5)
 Type **ZY 200 R** (R = Right for pin pair 6/7)

For ZY 180 and ZY 200: UL Styles 1385

For module types MCC/MCD/MCO 122, 132, 161, 162, 170, 200, 220, 224, 225, 250, 255, 310, 312, 500 and MII 400 (for MCD/MCO only L-type):
 Keyed Gate Cathode twin plugs with wire length = 350 mm
 gate = yellow, cathode = red
 Type **ZY 180 L** (L = Left for pin pair 4/5)
 Type **ZY 180 R** (R = Right for pin pair 6/7)

For module types MCC/MCD/MDD 220, 250, 310
 Threaded spacer for higher Anode / Cathode construction:
 Type **ZY 250** (material brass)



Design Information

For Thyristors, Diodes, Thyristor / Diode Modules and Rectifier Bridges

Surge current	<p>The 60 Hz value of I_{TSM} is 10 % higher than the 50 Hz value The I_{TSM} value at T_{VJM} is 10 to 15 % lower than the 45°C value</p>
Limiting I^2t	<p>50 Hz: I^2t (in A^2s) = $I_{TSM} (A) \cdot I_{TSM} (A) \cdot 0.005 (s)$; use rated I_{TSM} value (10 ms) 60 Hz: I^2t (in A^2s) = $I_{TSM} (A) \cdot I_{TSM} (A) \cdot 0.0042 (s)$; use 60-Hz-value of I_{TSM}</p>
Forward current	<p>The average current ratings in tables are mostly specified for temperature conditions of: $T_A = 45^\circ C$, $T_C = 85^\circ C$ or $T_C = 100^\circ C$. For other temperature conditions, the current ratings can be calculated using the following formulas, applicable up to 400 Hz.</p>
$I_{TAV} = \frac{-V_{TO} + \sqrt{V_{TO}^2 + 4 \cdot k^2 \cdot r_T \cdot P}}{2 \cdot k^2 \cdot r_T} \quad \text{where} \quad P = \frac{T_{VJM} - T_C}{R_{thJC}} \quad \text{or} \quad P = \frac{T_{VJM} - T_A}{R_{thJA}}$	
<p>I_{TAV} (A), P (W); V_{TO} (V); r_T (Ω), T_{VJM} ($^\circ C$), T_C ($^\circ C$), T_A ($^\circ C$) R_{thJC} (K/W), R_{thJA} (K/W)</p>	
<p>$k^2 = 1$ for DC current $k^2 = 2.5$ for sinusoidal half wave current $k^2 = 3.0$ for 120° rectangular current $k^2 = 6.0$ for 60° rectangular current</p>	
<p>The average forward current is limited by the RMS current value I_{TRMS}. When the calculated value I_{TAV} is higher than I_{TRMS}/k, replace it by $I_{TAV} = I_{TRMS}/k$.</p>	

701819-19AW	D391CH22	DS9-08F	DSDI60-18A	DSEI120-12A
701819-200AW	DG10-0115BS	DS9-12F	DSEA16-06AC	DSEI12-06A
701819-43AW	DGS10-015A	DSA1-12D	DSEA29-06AC	DSEI12-10A
701819-47AC	DGS10-015AS	DSA1-16D	DSEA59-06BC	DSEI12-12A
CS19-08HO1	DGS10-018A	DSA1-18D	DSEC16-02A	DSEI190-06AS
CS19-08HO1C	DGS10-022A	DSA17-12A	DSEC16-06A	DSEI1X31-06C
CS19-08HO1S	DGS10-025A	DSA17-16A	DSEC16-06AC	DSEI2X101-06A
CS19-12HO1	DGS20-015A	DSA17-18A	DSEC16-12A	DSEI2X101-12A
CS19-12HO1C	DGS20-018A	DSA2-12A	DSEC240-04A	DSEI2X31-06C
CS19-12HO1S	DGS20-022A	DSA2-16A	DSEC240-06A	DSEI2X31-10B
CS20-12IO1	DGS20-025A	DSA2-18A	DSEC29-02A	DSEI2X31-12B
CS20-14IO1	DGSK10-05CC	DSA35-12A	DSEC29-02AS	DSEI2X61-06C
CS20-16IO1	DGSK20-015A	DSA35-16A	DSEC29-06AC	DSEI2X61-10B
CS20-22MOF1	DGSK20-018A	DSA35-18A	DSEC30-02A	DSEI2X61-12B
CS23-08IO2	DGSK20-022A	DSA75-12B	DSEC30-03A	DSEI20-12A
CS23-12IO2	DGSK20-025A	DSA75-16B	DSEC30-06A	DSEI2X060-06P
CS23-16IO2	DGSK40-015A	DSA75-18B	DSEC30-12A	DSEI2X101-05A
CS29-08IO1C	DGSK40-018A	DSA9-12F	DSEC59-06BC	DSEI2X101-06A
CS29-12IO1C	DGSK40-022A	DSA9-16F	DSEC60-03A	DSEI2X101-06P
CS30-12IO1	DGSK40-025A	DSA9-18F	DSEC60-03AR	DSEI2X101-12A
CS30-14IO1	DGSS20-05CC	DSAI17-12A	DSEC60-04A	DSEI2X101-12P
CS30-16IO1	DS1-12D	DSAI17-16A	DSEC60-06A	DSEI2X121-02A
CS35-08IO4	DS17-08A	DSAI17-18A	DSEC60-06B	DSEI2X121-02P
CS35-12IO4	DS17-12A	DSAI35-12A	DSEC60-12A	DSEI2X161-12P
CS35-14IO4	DS20-01AC	DSAI35-16A	DSEE15-06CC	DSEI2X30-04C
CS45-08IO1	DS2-08A	DSAI35-18A	DSEE15-12CC	DSEI2X30-06C
CS45-12IO1	DS2-12A	DSAI75-12B	DSEE29-06CC	DSEI2X30-06P
CS45-16IO1	DS35-08A	DSAI75-16B	DSEE29-12CC	DSEI2X30-10B
CS45-16IO1R	DS35-12A	DSAI75-18B	DSEE55-24N1F	DSEI2X30-10P
CS8-08IO2	DS75-08B	DSDI60-14A	DSEE8-06CC	DSEI2X30-12B
CS8-12IO2	DS75-12B	DSDI60-16A	DSEI120-06A	DSEI2X30-12P

DSEI2X31-04C	DSEI8-06AS	DSEP30-12A	DSI75-08B	DSS2X200-0008D
DSEI2X31-06C	DSEIX161-02P	DSEP30-12AR	DSI75-12B	DSS2X41-01A
DSEI2X31-06P	DSEK60-02A	DSEP30-12CR	DSP25-12A	DSS2X61-0045A
DSEI2X31-08B	DSEK60-02AR	DSEP60-06A	DSP25-12AT	DSS2X61-01
DSEI2X31-10B	DSEK60-06A	DSEP60-06AT	DSP25-16A	DSS2X61-01A
DSEI2X31-10P	DSEK60-12A	DSEP60-12A	DSP25-16AR	DSS2X81-0045B
DSEI2X31-12B	DSEP15-03A	DSEP60-12AR	DSP25-16AT	DSS60-0045B
DSEI2X31-12P	DSEP15-06A	DSEP6-06AS	DSP45-12A	DSS6-0045AS
DSEI2X61	DSEP15-12CR	DSEP8-02A	DSP45-16A	DSSK10-018A
DSEI2X61-01A	DSEP29-03A	DSEP8-03A	DSP45-16AR	DSSK16-01A
DSEI2X61-02A	DSEP29-06A	DSEP8-12A	DSP8-08A	DSSK16-01AS
DSEI2X61-02P	DSEP29-06AS	DSEP9-06CR	DSP8-08AS	DSSK16-01C
DSEI2X61-04C	DSEP29-06B	DSI17-08A	DSP8-12A	DSSK20-0045A
DSEI2X61-06C	DSEP29-12A	DSI2X55-12A	DSP8-12AC	DSSK20-0045B
DSEI2X61-06P	DSEP2X25-12C	DSI2X55-16A	DSP8-12AS	DSSK20-013A
DSEI2X61-10B	DSEP2X31-03A	DSI30-08A	DSS10-0045A	DSSK20-015A
DSEI2X61-10P	DSEP2X31-04A	DSI30-08AC	DSS10-0045B	DSSK28-0045A
DSEI2X61-12A	DSEP2X31-06A	DSI30-08AS	DSS10-01A	DSSK28-0045B
DSEI2X61-12B	DSEP2X31-06B	DSI30-12A	DSS10-01AS	DSSK28-006B
DSEI2X61-12P	DSEP2X31-12A	DSI30-12AC	DSS16-0045A	DSSK28-01A
DSEI30-06A	DSEP2X35-06C	DSI30-12AS	DSS16-0045AS	DSSK30-0045A
DSEI30-10A	DSEP2X61-03A	DSI30-14A	DSS16-0045B	DSSK30-0045B
DSEI30-10AR	DSEP2X61-06A	DSI30-14AS	DSS16-01A	DSSK30-018A
DSEI30-12A	DSEP2X61-12A	DSI30-16A	DSS16-01AS	DSSK30-01A
DSEI36-06AS	DSEP2X91-03A	DSI30-16AS	DSS17-06CR	DSSK40-0008B
DSEI60-02A	DSEP2X91-06A	DSI35-08A	DSS20-0015B	DSSK40-0015B
DSEI60-06A	DSEP30-03A	DSI35-12A	DSS25-0025B	DSSK40-006B
DSEI60-10A	DSEP30-04A	DSI45-08A	DSS25-0045A	DSSK48-0025B
DSEI60-12A	DSEP30-06A	DSI45-12A	DSS2X121-0045B	DSSK50-0025B
DSEI6-06AS	DSEP30-06B	DSI45-16AR	DSS2X160-0045A	DSSK50-01A
DSEI8-06A	DSEP30-06BR	DSI7-12A	DSS2X160-01A	DSSK60-0045A

DSSK60-0045B	HTZ180D22K	IXBH10N170	IXBOD1-28RD	IXCP20M45A
DSSK60-012A	HTZ180D26K	IXBH15N140	IXBOD1-30RD	IXCP30M35
DSSK60-015A	HTZ180D30K	IXBH15N160	IXBOD1-32RD	IXCP30M35A
DSSK60-015AR	HTZ180D35K	IXBH16N170	IXBOD1-34R	IXCP30M45
DSSK70-0015B	HTZ240F10K	IXBH16N170A	IXBOD1-36R	IXCP30M45A
DSSK70-008A	HTZ240F12K	IXBH20N140	IXBOD1-38R	IXCP35M35
DSSK80-0025B	HTZ240F14K	IXBH20N160	IXBOD1-40R	IXCP35M35A
DSSK80-0045B	HTZ240F16K	IXBH42N170	IXBOD1-42R	IXCP35M45A
FTZ160C14K	HTZ250G28K	IXBH6N170	IXBT10N170	IXCP40M45
HTZ110A16K	HVL900-12IO1	IXBH90N140G	IXBT16N170	IXCP50M35
HTZ110A19K	HVL900-14IO1	IXBH9N160G	IXBT16N170A	IXCP50M35A
HTZ110A22K	HVL900-16IO1	IXBOD1-06	IXBT42N170	IXCP50M45A
HTZ110A25K	HVL900-18IO1	IXBOD1-07	IXBT42N170A	IXCP60M35
HTZ120A32K	I8XFM21N50	IXBOD1-08	IXBT6N170	IXCP60M45
HTZ120A38K	I8XSR40N60CD	IXBOD1-09	IXCK35N120BD1	IXCY01N90E
HTZ120A44K	IRFP250	IXBOD1-10	IXCP01N90E	IXCY02M35
HTZ120A51K	IRFP254	IXBOD1-12RD	IXCP02M35	IXCY02M35A
HTZ130B24K	IRFP260	IXBOD1-13RD	IXCP02M35A	IXCY02M45
HTZ130B28K	IRFP264	IXBOD1-14RD	IXCP02M45	IXCY02M45A
HTZ130B33K	IRFP360	IXBOD1-15RD	IXCP02M45A	IXCY100M35
HTZ130B38K	IRFP450	IXBOD1-16RD	IXCP100M35	IXCY100M45
HTZ150C6K	IRFP460	IXBOD1-17RD	IXCP100M45	IXCY10M35
HTZ150C7K	IRFP470	IXBOD1-18RD	IXCP10M35	IXCY10M35A
HTZ150C8K	IXBD4410PI	IXBOD1-19RD	IXCP10M35A	IXCY10M35S
HTZ150C9K	IXBD4410SI	IXBOD1-20RD	IXCP10M35S	IXCY10M45
HTZ160C12K	IXBD4411PI	IXBOD1-21RD	IXCP10M45	IXCY10M45A
HTZ160C17K	IXBD4411SI	IXBOD1-22RD	IXCP10M45A	IXCY10M45S
HTZ160C19K	IXBF40N140	IXBOD1-23RD	IXCP10M45S	IXCY20M35
HTZ170C2.4K	IXBF40N160	IXBOD1-24RD	IXCP20M35	IXCY20M35A
HTZ170C2K	IXBF9N140G	IXBOD1-25RD	IXCP20M35A	IXCY20M45
HTZ170C3K	IXBF9N160G	IXBOD1-26RD	IXCP20M45	IXCY20M45A

IXCY30M35	IXDF404SI-16	IXDR30N120	IXFF24N100	IXFH26N50Q
IXCY30M35A	IXDH20N120	IXDR30N120D1	IXFH10N100	IXFH26N60Q
IXCY30M45	IXDH20N20D1	IXDT30N120	IXFH10N90	IXFH280N085
IXCY30M45A	IXDH30N120	IXDT30N120D1	IXFH11N80	IXFH28N50F
IXCY35M35	IXDH30N120D1	IXDY20N120AS	IXFH12N100	IXFH30N40Q
IXCY35M35A	IXDH35N60B	IXEH40N120	IXFH12N100F	IXFH30N50Q
IXCY35M45A	IXDH35N60BD1	IXEH40N120D1	IXFH12N100Q	IXFH32N50
IXCY40M45	IXDI402PI	IXEN32N60	IXFH12N50F	IXFH32N50Q
IXCY50M35	IXDI402SI	IXER35N120D1	IXFH12N90	IXFH40N30
IXCY50M35A	IXDI404PI	IXER60N120	IXFH12N90Q	IXFH40N30Q
IXCY50M45	IXDI404SI	IXFA3N80	IXFH13N100	IXFH4N100Q
IXCY50M45A	IXDI404SI-16	IXFA4N100Q	IXFH13N50	IXFH50N20
IXCY60M35	IXDI409CI	IXFC13N50Q	IXFH13N80	IXFH52N30Q
IXCY60M45	IXDI409CM	IXFC24N50	IXFH13N80Q	IXFH58N20
IXDD404PI	IXDN409PI	IXFC26N50	IXFH13N90	IXFH58N20Q
IXDD404SI	IXDN409SI	IXFC40N30Q	IXFH14N100	IXFH60N20
IXDD404SI-16	IXDN409YI	IXFC60N20	IXFH14N80	IXFH60N20F
IXDD408CI	IXDN409YM	IXFC80N08	IXFH15N100	IXFH60N25Q
IXDD408CM	IXDN414CI	IXFC80N10	IXFH15N100Q	IXFH6N100
IXDD408PI	IXDN414CM	IXFC80N85	IXFH15N80	IXFH6N100F
IXDD408SI	IXDN414PI	IXFE180N10	IXFH15N80Q	IXFH6N100Q
IXDD408YI	IXDN414YI	IXFE24N100	IXFH16N90Q	IXFH6N90
IXDD408YM	IXDN414YM	IXFE36N100	IXFH20N60	IXFH70N15
IXDD414CI	IXDN55N120D1	IXFE39N90	IXFH20N60Q	IXFH74N20
IXDD414CM	IXDN75N120	IXFE44N60	IXFH20N80Q	IXFH75N10
IXDD414YI	IXDP20N60B	IXFE48N50Q	IXFH21N50F	IXFH75N10Q
IXDD414YM	IXDP20N60BD1	IXFE48N50QD2	IXFH21N50Q	IXFH76N07-11
IXDD415SI	IXDP35N60B	IXFE48N50QD3	IXFH22N55	IXFH76N07-12
IXDD4714PI	IXDP610PI	IXFE55N50	IXFH24N50	IXFH7N80
IXDF402PI	IXDP630PI	IXFE73N30Q	IXFH24N50Q	IXFH7N90Q
IXDF404SI	IXDP631PI	IXFE80N50	IXFH26N50	IXFH80N08

IXFH80N085	IXFK32N50Q	IXFM13N50	IXFN24N90Q	IXFN73N30
IXFH80N10	IXFK32N60	IXFM13N80	IXFN25N90	IXFN73N30Q
IXFH80N10Q	IXFK33N50	IXFM20N60	IXFN26N90	IXFN75N50
IXFH80N15Q	IXFK34N80	IXFM30N40Q	IXFN27N80	IXFN80N50
IXFH80N20Q	IXFK35N50	IXFM40N30	IXFN27N80Q	IXFN90N30
IXFH8N80	IXFK36N60	IXFM50N20	IXFN280N07	IXFP3N80
IXFH9N80	IXFK44N50	IXFM6N100	IXFN340N06	IXFP4N100Q
IXFH9N80Q	IXFK44N50F	IXFM6N90	IXFN340N07	IXFR100N25
IXFJ13N50	IXFK44N50Q	IXFM75N10	IXFN34N100	IXFR10N100Q
IXFJ32N50Q	IXFK44N60	IXFM7N80	IXFN34N80	IXFR120N20
IXFJ40N30	IXFK48N50	IXFN100N10S2	IXFN36N100	IXFR12N100Q
IXFK100N25	IXFK48N50Q	IXFN100N10S3	IXFN36N60	IXFR150N15
IXFK120N20	IXFK48N55	IXFN100N20	IXFN39N90	IXFR15N80Q
IXFK150N15	IXFK50N50	IXFN100N25	IXFN44N50	IXFR180N06
IXFK15N100Q	IXFK52N30Q	IXFN106N20	IXFN44N50Q	IXFR180N07
IXFK16N90Q	IXFK55N50	IXFN120N20	IXFN44N50U2	IXFR180N085
IXFK180N07	IXFK55N50F	IXFN130N30	IXFN44N50U3	IXFR180N10
IXFK180N085	IXFK60N25Q	IXFN150N10	IXFN44N60	IXFR21N100Q
IXFK180N10	IXFK73N30	IXFN150N15	IXFN44N80	IXFR24N100
IXFK20N80Q	IXFK73N30Q	IXFN15N100	IXFN48N45	IXFR24N50
IXFK21N100F	IXFK80N15Q	IXFN1704	IXFN48N50	IXFR24N50Q
IXFK21N100Q	IXFK80N20	IXFN180N07	IXFN48N50Q	IXFR26N50
IXFK24N100	IXFK80N20Q	IXFN180N10	IXFN48N50U2	IXFR26N50Q
IXFK24N100F	IXFK90N20Q	IXFN180N20	IXFN48N50U3	IXFR26N60Q
IXFK24N90Q	IXFK90N30	IXFN200N06	IXFN48N55	IXFR27N80Q
IXFK25N90	IXFM100N10S1	IXFN200N07	IXFN50N50	IXFR30N50Q
IXFK26N60Q	IXFM10N100	IXFN21N100Q	IXFN55N50	IXFR32N50Q
IXFK26N90	IXFM10N90	IXFN230N10	IXFN55N50F	IXFR34N80
IXFK27N80	IXFM11N80	IXFN23N100	IXFN60N50	IXFR44N50Q
IXFK27N80Q	IXFM12N100	IXFN24N100	IXFN60N60	IXFR44N60
IXFK30N50Q	IXFM12N90	IXFN24N100F	IXFN61N50	IXFR48N50Q

IXFR4N100Q	IXFT30N40Q	IXFX180N10	IXGA15N120B	IXGH17N100U1
IXFR50N50	IXFT30N50	IXFX21N100F	IXGA15N120C	IXGH20N100
IXFR55N50	IXFT30N50Q	IXFX21N100Q	IXGA20N100	IXGH20N120
IXFR58N20Q	IXFT32N50	IXFX24N100	IXGA20N120	IXGH20N60B
IXFR70N15	IXFT32N50Q	IXFX24N100F	IXGA20N60B	IXGH20N60BD1
IXFR80N10Q	IXFT40N30Q	IXFX24N90Q	IXGA4N100	IXGH24N60B
IXFR80N15Q	IXFT4N100Q	IXFX25N90	IXGA7N60B	IXGH24N60C
IXFR80N20Q	IXFT52N30Q	IXFX26N90	IXGA7N60C	IXGH24N60CD1
IXFR90N20	IXFT58N20	IXFX27N80Q	IXGA7N60CD1	IXGH25N100
IXFR90N30	IXFT58N20Q	IXFX30N50Q	IXGA8N100	IXGH25N100A
IXFT10N100	IXFT60N20	IXFX32N50Q	IXGB75N60BD1	IXGH25N100AU1
IXFT12N100	IXFT60N20F	IXFX34N80	IXGC12N60C	IXGH25N100U1
IXFT12N100F	IXFT60N25Q	IXFX44N50F	IXGC12N60CD1	IXGH25N120
IXFT12N100Q	IXFT6N100F	IXFX44N50Q	IXGC24N60C	IXGH25N120A
IXFT12N50F	IXFT6N100Q	IXFX44N60	IXGH10N170A	IXGH25N120AU1
IXFT13N100	IXFT70N15	IXFX48N50Q	IXGH12N100	IXGH28N60B
IXFT13N80Q	IXFT74N20	IXFX48N55	IXGH12N100A	IXGH28N60BD1
IXFT14N100	IXFT7N90Q	IXFX50N50	IXGH12N100AU1	IXGH28N90B
IXFT15N100	IXFT80N08	IXFX55N50	IXGH12N100U1	IXGH30N60B
IXFT15N100Q	IXFT80N085	IXFX55N50F	IXGH12N60B	IXGH30N60BD1
IXFT15N80Q	IXFT80N10	IXFX73N30Q	IXGH12N60BD1	IXGH30N60BU1
IXFT16N90Q	IXFT80N10Q	IXFX90N20Q	IXGH12N60C	IXGH31N60
IXFT20N60Q	IXFT80N15Q	IXFX90N30	IXGH12N60CD1	IXGH31N60D1
IXFT20N80Q	IXFT80N20Q	IXGA12N100	IXGH12N90C	IXGH32N170A
IXFT21N50F	IXFX100N25	IXGA12N100A	IXGH15N120B	IXGH32N60B
IXFT21N50Q	IXFX120N20	IXGA12N100AU1	IXGH15N120BD1	IXGH32N60BD1
IXFT24N50Q	IXFX14N100	IXGA12N100U1	IXGH15N120C	IXGH32N60BU1
IXFT26N50	IXFX150N15	IXGA12N60B	IXGH15N120CD1	IXGH32N60C
IXFT26N50Q	IXFX15N100	IXGA12N60C	IXGH16N170A	IXGH32N60CD1
IXFT26N60Q	IXFX180N07	IXGA12N60CD1	IXGH17N100A	IXGH35N120B
IXFT28N50F	IXFX180N085	IXGA15N100C	IXGH17N100AU1	IXGH35N120C

IXGH39N60B	IXGP12N60C	IXGR50N60B	IXGT40N60C	IXSH25N120AU1
IXGH39N60BD1	IXGP12N60CD1	IXGR50N60BD1	IXGT45N120	IXSH30N60B
IXGH40N60B	IXGP15N100C	IXGR60N60U1	IXGT50N60B	IXSH30N60BD1
IXGH40N60C	IXGP15N120B	IXGR80N60B	IXGT60N60	IXSH30N60C
IXGH41N60	IXGP15N120C	IXGT10N170A	IXGT6N170A	IXSH30N60CD1
IXGH45N120	IXGP20N100	IXGT15N120B	IXGX120N60B	IXSH30N60U1
IXGH50N60B	IXGP20N120	IXGT15N120BD1	IXGX40N60BD1	IXSH35N100A
IXGH60N60	IXGP20N60B	IXGT15N120C	IXGX50N60BD1	IXSH35N120A
IXGH6N170A	IXGP2N100	IXGT15N120CD1	IXJH36N20	IXSH35N120B
IXGK120N60B	IXGP2N100A	IXGT16N170A	IXKC13N80C	IXSH35N140A
IXGK35N120CD1	IXGP4N100	IXGT20N100	IXKC20N60C	IXSH40N60B
IXGK50N60B	IXGP7N60B	IXGT20N120	IXKC25N80C	IXSH45N100
IXGK50N60BD1	IXGP7N60C	IXGT20N60B	IXKC40N60C	IXSH45N120
IXGK60N60	IXGP7N60CD1	IXGT20N60BD1	IXKN40N60C	IXSH45N120B
IXGK75N60B	IXGP8N100	IXGT24N60B	IXKN45N80C	IXSH50N60B
IXGM17N100A	IXGR120N60B	IXGT24N60C	IXKN75N60C	IXSI35N120BD1
IXGM25N100	IXGR12N60C	IXGT24N60CD1	IXKR40N60C	IXSK30N60BD1
IXGM25N100A	IXGR24N60B	IXGT28N60B	IXLF19N220A	IXSK30N60CD1
IXGN200N60	IXGR24N60C	IXGT28N60BD1	IXLF19N250A	IXSK35N120AU1
IXGN200N60B	IXGR24N60CD1	IXGT28N90B	IXMS150PSI	IXSK35N120BD1
IXGN40N60CD1	IXGR32N60C	IXGT30N60B	IXRH50N100	IXSK40N60BD1
IXGN50N60B	IXGR32N60CD1	IXGT31N60	IXRH50N120	IXSK40N60CD1
IXGN50N60BD2	IXGR35N120B	IXGT31N60D1	IXRH50N60	IXSK50N60AU1
IXGN50N60BD3	IXGR35N120C	IXGT32N170A	IXRH50N80	IXSK50N60BD1
IXGN60N60	IXGR39N60B	IXGT32N60BD1	IXSH150120BD1	IXSK80N60B
IXGN75N60B	IXGR39N60BD1	IXGT32N60C	IXSH15N120B	IXSN35N100U1
IXGP12N100	IXGR40N60B	IXGT32N60CD1	IXSH24N60	IXSN35N120AU1
IXGP12N100A	IXGR40N60BD1	IXGT35N120B	IXSH24N60AU1	IXSN40N60AU1
IXGP12N100AU1	IXGR40N60C	IXGT35N120C	IXSH24N60B	IXSN40N60AV1
IXGP12N100U1	IXGR40N60CD1	IXGT39N60B	IXSH24N60BD1	IXSN50N60BD2
IXGP12N60B	IXGR45N120	IXGT40N60B	IXSH25N120A	IXSN50N60BD3

IXSN50N60U1	IXTA2N100	IXTH67N10	IXTP01N100D	MCC132-12IO1
IXSN52N60AU1	IXTA2N80	IXTH6N80A	IXTP02N50D	MCC132-12IO1B
IXSN55N120A	IXTA3N110	IXTH6N90	IXTP05N100	MCC132-12IO1
IXSN55N12AU1	IXTA3N120	IXTH6N90A	IXTP1N100	MCC132-14IO1
IXSN62N60U1	IXTC13N50	IXTH75N10	IXTP1N80	MCC132-16IO1B
IXSN80N60A	IXTC75N10	IXTH7P50	IXTP2N100	MCC132-16IO1
IXSN80N60BD1	IXTH10P50	IXTH8P50	IXTP2N80	MCC132-18IO1
IXSR35N120B0	IXTH10P60	IXTK120N25	IXTP3N110	MCC161-20IO1
IXSR35N120BD1	IXTH11P50	IXTK180N15	IXTP3N120	MCC161-22IO1
IXSR40N60BD1	IXTH12N100	IXTK21N100	IXTR30N25	MCC162/12IO1B
IXSR40N60CD1	IXTH12N100Q	IXTK33N50	IXTT1N100	MCC162-08IO1
IXSR40N690BD	IXTH12N90	IXTK62N25	IXTT48N15	MCC162-12IO1
IXST15N120B	IXTH13N110	IXTK90N15	IXTT60N10	MCC162-12IO1B
IXST15N120BD1	IXTH13N80	IXTM12N100	IXTU01N100	MCC162-12IO1
IXST24N60B	IXTH14N100	IXTM12N90	IXTU01N80	MCC162-14IO1
IXST30N60B	IXTH14N80	IXTM13N80	IXTY01N100	MCC162-16IO1B
IXST30N60BD1	IXTH16P20	IXTM20N60	IXTY01N80	MCC162-16IO7 B
IXST30N60C	IXTH1N100	IXTM21N50	IXUC100N055	MCC162-16IO1
IXST30N60CD1	IXTH20N60	IXTM24N50	IXUC120N10	MCC162-18
IXST35N120B	IXTH21N50	IXTM40N30	IXUC160N075	MCC162-18IO1
IXST40N60B	IXTH24N50	IXTM50N20	IXUC200N055	MCC170/12IO1B
IXST45N120B	IXTH24P20	IXTM5N100A	IXUC60N10	MCC170-12IO1
IXSX35N120AU1	IXTH30N25	IXTM67N10	MC1450-22IO1	MCC170-14IO1
IXSX40N60BD1	IXTH30N50	IXTM6N80A	MCC122-08IO1	MCC170-16IO1
IXSX40N60CD1	IXTH36P10	IXTM6N90	MCC122-12IO1	MCC170-18IO1
IXSX50N60BD1	IXTH40N30	IXTM6N90A	MCC122-14IO1	MCC18-06IO8
IXSX50N60BU1	IXTH48N15	IXTM75N10	MCC122-16IO1	MCC18-12IO8
IXSX80N60B	IXTH50N100A	IXTN15N100	MCC122-18IO1	MCC19-08IO1B
IXTA05N100	IXTH50N20	IXTN21N100	MCC132/12IO1B	MCC19-12IO8B
IXTA1N100	IXTH50P10	IXTN36N50	MCC132-08IO1	MCC19-14IO8B
IXTA1N80	IXTH60N10	IXTN79N20	MCC132-08IO1	MCC19-16IO1 B

MCC19-16IO1B	MCC255-14IO1	MCC40-08IO8	MCC56-16IO1B	MCC95-12IO8 B
MCC21-14IO8B	MCC255-16IO1	MCC40-12IO8	MCC56-16IO8B	MCC95-14IO8B
MCC21-16IO8B	MCC255-18IO1	MCC40-16IO8	MCC56-18IO1B	MCC95-16
MCC220/12IO1B	MCC26/12IO1B	MCC44/12IO1B	MCC56-18IO8B	MCC95-16IO1 B
MCC220/16IO1B	MCC26/16IO1B	MCC44/16IO1B	MCC60-16IO1B	MCC95-16IO1B
MCC220-08IO1	MCC26-08IO8 B	MCC44-08	MCC72/12IO1B	MCD132/12IO1B
MCC220-12IO1B	MCC26-08IO1B	MCC44-08IO1 B	MCC72/16IO1B	MCD132/16IO1B
MCC220-12IO1	MCC26-08IO8B	MCC44-08IO1B	MCC72-08IO1B	MCD132-08
MCC220-14IO1	MCC26-12IO1 B	MCC44-12IO1 B	MCC72-08IO8B	MCD132-08IO1
MCC220-16IO1B	MCC26-12IO1 B	MCC44-12IO1B	MCC72-12IO1 B	MCD132-12IO1
MCC220-16IO1	MCC26-12IO1B	MCC44-12IO8B	MCC72-12IO1B	MCD132-14IO1
MCC224-20IO1	MCC26-12IO1B	MCC44-14IO1 B	MCC72-12IO1B	MCD132-16IO1
MCC224-22IO1	MCC26-14IO1 B	MCC44-16IO1B	MCC72-12IO8B	MCD132-18IO1
MCC225-12IO1	MCC26-14IO8B	MCC44-16IO8B	MCC72-14IO1B	MCD161-20IO1
MCC225-14IO1	MCC26-16IO1B	MCC44-18IO1B	MCC72-14IO8B	MCD162/12IO1B
MCC225-16IO1	MCC26-16IO3 B	MCC55-06IO8	MCC72-16IO1B	MCD162/16IO1B
MCC225-18IO1	MCC26-16IO1B	MCC55-08IO1	MCC72-16IO8B	MCD162-16IO1
MCC250/12IO1B	MCC26-16IO8B	MCC55-12	MCC72-18IO1B	MCD220/12IO1B
MCC250-08IO1	MCC26-44IO1B	MCC55-12IO8	MCC72-18IO8B	MCD220/16IO1B
MCC250-12IO1B	MCC310-08IO1	MCC56/12IO1B	MCC90-06IO8	MCD220-08IO1
MCC250-12IO1	MCC310-12IO1B	MCC56/16IO1B	MCC90-08IO1	MCD220-12IO1
MCC250-14IO1	MCC310-12IO1	MCC56-08IO1 B	MCC90-12IO1	MCD220-14IO1
MCC250-16IO1	MCC310-16IO1B	MCC56-12	MCC90-12IO8	MCD220-16IO1
MCC250-16IO1B	MCC310-16IO1	MCC56-12IO1 B	MCC94-20IO1B	MCD224-20IO1
MCC250-16IO1	MCC310-18IO1	MCC56-12IO1B	MCC94-22IO1B	MCD224-22IO1
MCC250-18IO1	MCC312/12IO1B	MCC56-12IO8 B	MCC95/12IO1B	MCD225-08IO1
MCC25-06IO8	MCC312/16IO1B	MCC56-12IO8B	MCC95/16IO1B	MCD225-12IO1
MCC25-08IO1	MCC312-12IO1	MCC56-14IO1 B	MCC95-08IO1 B	MCD225-14IO1
MCC25-10IO8	MCC312-14IO1	MCC56-14IO8 B	MCC95-12	MCD225-16IO1
MCC25-12IO8	MCC312-16IO1	MCC56-14IO1B	MCC95-12IO1 B	MCD225-18IO1
MCC255-12IO1	MCC312-18IO1	MCC56-14IO8B	MCC95-12IO1B	MCD250/12IO1B

MCD250/16IO1B	MCD44/16IO1B	MCD72-12IOB	MCO500-16IO1	MDD220-14N1
MCD250-14IO1	MCD44-08IO8B	MCD72-14IO8B	MCO500-18IO1	MDD220-16N1
MCD250-16IO1	MCD44-12IO8B	MCD72-16IO1B	MCO600-12	MDD220-16N1B
MCD25-12IO8	MCD44-12IOB	MCD72-16IO8B	MCO600-16	MDD250-08N1
MCD255-12IO1	MCD44-14IO8B	MCD72-16IOB	MCO600-20IO1	MDD250-12N1
MCD255-14IO1	MCD44-16IO8 B	MCD72-18IO8B	MDA72-08N1B	MDD250-12N1B
MCD255-16IO1	MCD44-16IO8B	MCD90-08IO8	MDA72-14N1B	MDD250-14N1
MCD255-18IO1	MCD44-16IOB	MCD94-20IO1B	MDA72-16N1B	MDD250-16N1
MCD26/12IO1B	MCD44-18IO8B	MCD94-22IO1B	MDC56-06	MDD250-16N1B
MCD26/16IO1B	MCD56/12IO1B	MCD95/12IO1B	MDC56-06IO1 B	MDD25-12M
MCD26-06IO1B	MCD56/16IO1B	MCD95/16IO1B	MDC56-16IO1 B	MDD25-16N1
MCD26-08IO8 B	MCD56-08IO1B	MCD95-08IO8B	MDC90-16IO8	MDD255-12N1
MCD26-12IO8B	MCD56-12IO8 B	MCD95-12IO8	MDD142-08N1	MDD255-14N1
MCD26-12IOB	MCD56-12IO1B	MCD95-12IO1B	MDD142-12N1	MDD255-16N1
MCD26-14IO8B	MCD56-12IO8B	MCD95-12IO8B	MDD142-12N1B	MDD255-18N1
MCD26-16IO8B	MCD56-12IOB	MCD95-12IOB	MDD142-14N1	MDD255-20N1
MCD26-16IOB	MCD56-14IO1	MCD95-14IO1	MDD142-16N1	MDD255-22N1
MCD310-08IO1	MCD56-14IO8B	MCD95-14IO8B	MDD142-16N1B	MDD26-08N1B
MCD310-12IO1	MCD56-16IO1 B	MCD95-16IO1 B	MDD142-18N1	MDD26-12N1
MCD310-14IO1	MCD56-16IO8B	MCD95-16IO8 B	MDD172-08N1	MDD26-12N1B
MCD310-16IO1	MCD56-16IO1	MCD95-16IO1	MDD172-12N01	MDD26-14N18
MCD310-18IO1	MCD56-16IO1B	MCD95-16IO1B	MDD172-12N1	MDD310-08N1
MCD312/12IO1B	MCD56-16IO8B	MCD95-16IO8B	MDD172-12N1B	MDD310-12N1
MCD312/16IO1B	MCD56-16IOB	MCD95-16IOB	MDD172-13N1	MDD310-12N1B
MCD312-12IO1	MCD56-18IO8B	MCD95-18IO8B	MDD172-14N1	MDD310-14N1
MCD312-14IO1	MCD72/12IO1B	MCO450-20	MDD172-16N1	MDD310-16N1
MCD312-16IO1	MCD72/16IO1B	MCO450-20IO1	MDD172-16N1B	MDD310-16N1B
MCD312-18IO1	MCD72-08IO8 B	MCO500-12	MDD172-18N1	MDD310-18N1
MCD40-12IO6	MCD72-08IO8B	MCO500-12IO1	MDD220-08N1	MDD310-20N1
MCD40-16IO6	MCD72-12IO1B	MCO500-14IO1	MDD220-12N1	MDD310-22N1
MCD44/12IO1B	MCD72-12IO8B	MCO500-16	MDD220-12N1B	MDD312-12N1

MDD312-14N1	MDD95-14N1B	MEO500-06DA	MLO36-16IO1	MUBW10(15)-12A6
MDD312-16N1	MDD95-16N1	MEO550-02DA	MLO75-12IO1	MUBW100-06A8
MDD312-18N1	MDD95-18N1B	MEO550-06DA	MLO75-16IO1	MUBW10-06A6
MDD312-20N1	MDD95-20N1B	MEO550-12DA	MMO074-17	MUBW10-06A7
MDD312-22N1	MDD95-22N1B	MID100-12A3	MMO110-08IO7	MUBW10-12A6
MDD42-06N1	MDI100-12A3	MID145-12A3	MMO110-12IO7	MUBW10-12A7
MDD42-08N1	MDI150-12A4	MID150-12A4	MMO110-14IO7	MUBW15-06A7
MDD44-06N1	MDI200-12A4	MID200-12A4	MMO140-08IO7	MUBW15-12A6
MDD44-06N1 B	MDI300-12A4	MID300-12A4	MMO140-12IO7	MUBW15-12A6K
MDD44-08N1 B	MDI550-12A4	MID550-12A4	MMO140-16IO7	MUBW15-12A7
MDD44-12	MDI75-12A3	MID75-12A3	MMO175-08IO7	MUBW20-06A6
MDD44-12N1	MDO500-12N1	MII145-12A3	MMO175-12IO7	MUBW20-06A7
MDD44-12N1B	MDO500-14N1	MII150-12A4	MMO175-16IO7	MUBW30-06A7
MDD44-14N1B	MDO500-16N1	MII400-12E4	MMO230-08IO7	MUBW30-12A6
MDD44-16N1 B	MDO500-18N1	MII75-12A3	MMO230-12IO7	MUBW30-12A6K
MDD44-18N1B	MDO500-20N1	MKI100-12E8	MMO230-14IO7	MUBW35-06A6
MDD56-08N1B	MDO500-22N1	MKI50-06A7	MMO230-16IO7	MUBW35-12A7
MDD56-12N1B	MEA250-12DA	MKI75-06A7	MMO230-18IO7	MUBW35-12A8
MDD56-16	MEA300-06DA	MLO110-08IO7	MMO36-12IO1	MUBW35-12E7
MDD56-16N1	MEA75-12DA	MLO110-12IO7	MMO36-16IO1	MUBW50-06A7
MDD56-16N1B	MEA95-06DA	MLO110-14IO7	MMO62-12IO6	MUBW50-06A8
MDD56-18N1B	MEE250-12DA	MLO140-08IO7	MMO62-16IO6	MUBW50-12A8
MDD72-08N1B	MEE300-06DA	MLO140-12IO7	MMO72-16IO6	MUBW50-12E8
MDD72-14N1B	MEE75-12DA	MLO140-16IO7	MMO74-12IO6	MUBW6-06A6
MDD72-16N1 B	MEE95-06DA	MLO175-08IO7	MMO74-16IO6	MUBW75-06A8
MDD72-16N1B	MEK250-12DA	MLO230-08IO7	MMO75-12IO1	MWI100-06A8
MDD72-18N1B	MEK300-06DA	MLO230-12IO7	MMO75-16IO1	MWI100-12A8
MDD80-04N1	MEK350-02DA	MLO230-14IO7	MMO90-12IO6	MWI100-12E8
MDD95-08N1	MEK75-12DA	MLO230-16IO7	MMO90-16IO6	MWI150-06A8
MDD95-08N1B	MEK95-06DA	MLO230-18IO7	MTC-19884	MWI15-12A7
MDD95-12N1B	MEO450-12DA	MLO36-12IO1	MTC200-12	MWI200-06A8

MWI25-12A7	SW04-15HHR470	VBO130-12NO7	VBO25-08NO2	VBO52-16NO7
MWI25-12A7T	SW04-15PHN300	VBO130-14NO7	VBO25-12AO2	VBO52-18NO7
MWI25-12E7	SW04-15PHN400	VBO130-16NO7	VBO25-12NO2	VBO54-08NO7
MWI30-06A7	SW04-15PHN470	VBO130-18NO7	VBO25-16AO2	VBO54-12NO7
MWI30-06A7T	SW04-15PHR300	VBO13-08NO2	VBO25-16NO2	VBO54-14NO7
MWI35-12A7	SW04-15PHR400	VBO13-12AO2	VBO30-08NO7	VBO54-16NO7
MWI35-12A7T	SW04-15PHR470	VBO13-12NO2	VBO30-12NO7	VBO55-08NO7
MWI35-12E7	SW0422CK805	VBO13-16AO2	VBO30-14NO7	VBO55-12NO7
MWI50-06A7	SW24OHN320	VBO13-16NO2	VBO30-16NO7	VBO55-14NO7
MWI50-06A7T	UXEN60N120	VBO160-08NO7	VBO30-18NO7	VBO55-16NO7
MWI50-12A7T	VBE100-06NO7	VBO160-12NO7	VBO36-08NO8	VBO55-18NO7
MWI50-12E7	VBE100-12NO7	VBO160-14NO7	VBO36-12NO8	VBO65-08NO7
MWI75-06A7	VBE17-06NO7	VBO160-16NO7	VBO36-14NO8	VBO65-12NO7
MWI75-06A7T	VBE17-12NO7	VBO160-18NO7	VBO36-16NO8	VBO65-14NO7
MWI75-12A8	VBE20-20NO1	VBO19-06NO7	VBO36-18NO8	VBO65-16NO7
MWI75-12E8	VBE26-06NO7	VBO19-08NO7	VBO40-08NO6	VBO65-18NO7
N1600CH08	VBE26-12NO7	VBO19-12NO7	VBO40-12NO6	VBO68-08NO7
N630CH30	VBE55-06NO7	VBO20-06NO7	VBO40-16NO6	VBO68-12NO7
NO86CH12	VBE55-12NO7	VBO20-08NO2	VBO45-08NO7	VBO68-14NO7
NO86PH12	VBH40-05A	VBO20-12AO2	VBO45-12NO7	VBO68-16NO7
OXFT142N90Q	VBO105-08NO7	VBO20-12NO2	VBO45-14NO7	VBO72-08NO7
P0349LC65	VBO105-12NO7	VBO20-16AO2	VBO45-16NO7	VBO72-12NO7
P214PH06	VBO105-14NO7	VBO20-16NO2	VBO45-18NO7	VBO72-14NO7
P280CH04	VBO105-16NO7	VBO21-06NO7	VBO50-08NO7	VBO72-16NO7
R200CH16	VBO105-18NO7	VBO21-08NO7	VBO50-12NO7	VBO72-18NO7
R210CH10	VBO125-08NO7	VBO21-12NO7	VBO50-14NO7	VBSD50-015NO1
R325CH10	VBO125-12NO7	VBO22-08NO8	VBO50-16NO7	VCA105-06IO7
R400CH08	VBO125-14NO7	VBO22-12NO8	VBO50-18NO7	VCA105-12IO7
R800CH16-18	VBO125-16NO7	VBO22-14NO8	VBO52-08NO7	VCA105-14IO7
SW04-15HHR300	VBO125-18NO7	VBO22-16NO8	VBO52-12NO7	VCA105-16IO7
SW04-15HHR400	VBO130-08NO7	VBO22-18NO8	VBO52-14NO7	VCA105-18IO7

VCA1058-08IO7	VDI125-12P1	VHF28-08IO5	VID160-12P1	VKM40-06P1
VCC105-06IO7	VDI130-06P1	VHF28-12IO5	VID25-06P1	VKM60-01P1
VCC105-08IO7	VDI160-12P1	VHF28-14IO5	VID25-12P1	VKO15-12IO5
VCC105-12IO7	VDI25-06P1	VHF28-16IO5	VID50-06P1	VKO55-08IO7
VCC105-14IO7	VDI25-12P1	VHF36-08IO5	VID50-12P1	VKO55-12IO7
VCC105-16IO7	VDI50-06P1	VHF36-12IO5	VID75-06P1	VKO55-14IO7
VCC105-18IO7	VDI50-12P1	VHF36-14IO5	VID75-12P1	VKO55-16IO7
VCC2X105-06IO7	VDI75-06P1	VHF36-16IO5	VII100-06P1	VMK165-007T
VCC2X105-08IO7	VDI75-12P1	VHF55-08IO7	VII130-06P1	VMK90-02T1
VCC2X105-12IO7	VGB0124AY7A	VHF55-12IO7	VII25-06P1	VMM15-045XX1
VCC2X105-14IO7	VGf0136AB	VHF55-14IO7	VII25-12P1	VMM300-03F
VCC2X105-16IO7	VGf0136AH	VHF55-16IO7	VII420-03S	VMM45-02F
VCC2X105-18IO7	VGO36-08IO7	VHF85-12IO7	VII50-06P1	VMM650-01F
VCD105-06IO7	VGO36-12IO7	VHF85-14IO7	VII50-12P1	VMM85-02F
VCD105-08IO7	VGO36-14IO7	VHFD16-08IO1	VII75-06P1	VMM90-09F
VCD105-12IO7	VGO36-16IO7	VHFD16-12IO1	VII75-12P1	VMO150-01P1
VCD105-14IO7	VGO55-08IO7	VHFD16-16IO1	VIO1000-03G	VMO40-05P1
VCD105-16IO7	VGO55-12IO7	VHFD29-08IO1	VIO100-06P1	VMO580-02F
VCD105-18IO7	VGO55-14IO7	VHFD29-12IO1	VIO125-12P1	VMO60-05F
VCK105-06IO7	VGO55-16IO7	VHFD29-14IO1	VIO130-06P1	VMO650-01F
VCK105-08IO7	VHDF16-14IO1	VHFD29-16IO1	VIO160-12P1	VMO80-05P1
VCK105-12IO7	VHF125-12IO7	VHFD37-08IO1	VIO25-06P1	VNO550-01F
VCK105-147IO	VHF125-14IO7	VHFD37-12IO1	VIO25-12P1	VTO110-12IO7
VCK105-16IO7	VHF125-16IO7	VHFD37-14IO1	VIO50-06P1	VTO110-14IO7
VCK105-18IO7	VHF15-08IO5	VHFD37-16IO1	VIO50-12P1	VTO175-12IO7
VCO180-08IO7	VHF15-12IO5	VHM25-05P1	VIO75-06P1	VTO175-14IO7
VCO180-12IO7	VHF15-14IO5	VHO55-08IO7	VIO75-12P1	VTO175-16IO7
VCO180-14IO7	VHF15-16IO5	VHO55-12IO7	VKF55-08IO7	VTO39-06HO7
VCO180-16IO7	VHF25-06IO7	VHO55-14IO7	VKI50-06P1	VTO39-08HO7
VCO180-18IO7	VHF25-08IO7	VHO55-16IO7	VKI50-12P1	VTO39-12HO7
VDI100-06P1	VHF25-12IO7	VID100-06P1	VKI75-06P1	VTO70-08IO7

VTO70-12IO7	VUC36-16GO2	VUO120-16NO1	VUO22-18NO1	VUO35-16NO7
VTO70-14IO7	VUE22-06NO7	VUO125-12NO7	VUO25-06NO7	VUO35-18NO7
VTO70-16IO7	VUE22-12NO7	VUO125-12NO7	VUO25-06NO8	VUO36-06NO8
VTOF70-08IO7	VUE30-20NO1	VUO125-14NO7	VUO25-12NO8	VUO36-14NO8
VTOF70-12IO7	VUE35-06NO7	VUO125-16NO7	VUO25-14NO8	VUO36-16
VTOF70-14IO7	VUE35-12NO7	VUO125-18NO7	VUO25-16BO8	VUO36-16NO3
VTOF70-16IO7	VUE50-12NO1	VUO155-12NO1	VUO25-16NO8	VUO36-16NO8
VUB120-12N	VUE75-06NO7	VUO155-16NO1	VUO25-18NO8	VUO36-18NO8
VUB120-12NO1	VUE75-12NO7	VUO160-08NO7	VUO27-06NO7	VUO50-08BO3
VUB145-16	VUI30-12N1	VUO160-12NO7	VUO27-08NO7	VUO50-12NO3
VUB160-12NO1	VUI9-06N7	VUO160-14NO7	VUO27-12NO7	VUO50-12NO1
VUB160-16NO1	VUM24-05N	VUO160-16NO7	VUO28-06NO7	VUO50-12NO3
VUB33-06P1	VUM25-05E	VUO160-18NO7	VUO28-08NO7	VUO50-14NO3
VUB50-12PO1	VUM33-05N	VUO16-08NO1	VUO28-12NO7	VUO50-16N
VUB51-12NO1	VUM35-05P1	VUO16-12NO1	VUO30-08NO5	VUO50-16NO3
VUB51-16NO1	VUM85-05A	VUO16-14NO1	VUO30-08NO3	VUO50-16NO8
VUB60-12	VUO100-08NO7	VUO16-16NO1	VUO30-12NO3	VUO50-16NO3
VUB60-12NO1	VUO100-12NO7	VUO16-18NO1	VUO30-14NO3	VUO50-18NO3
VUB60-16NO1	VUO100-14NO7	VUO18-12DT8	VUO30-16NO3	VUO52-08NO1
VUB70-12/16	VUO100-16NO7	VUO18-14DT8	VUO30-18NO3	VUO52-12NO1
VUB71-12/16	VUO105-12MO7	VUO18-16DT8	VUO34-08NO1	VUO52-14NO1
VUB71-16NO1	VUO105-12NO7	VUO190-08NO7	VUO34-12NO1	VUO52-16NO1
VUB72-12NO1	VUO105-14NO7	VUO190-12NO7	VUO34-14NO1	VUO52-18NO1
VUB72-16NO1	VUO105-16NO7	VUO190-14NO7	VUO34-16NO1	VUO55-12NO7
VUBM33-05P1	VUO105-18NO7	VUO190-16NO7	VUO34-18NO1	VUO55-12NO7
VUC25-12GO2	VUO110-08MO7	VUO190-18NO7	VUO35-06NO7	VUO55-14NO7
VUC25-14	VUO110-12NO7	VUO200-16NO7	VUO35-12	VUO55-16NO7
VUC25-14GO2	VUO110-14NO7	VUO22-08NO1	VUO35-12NO7	VUO55-18NO7
VUC25-16GO2	VUO110-16NO7	VUO22-12NO1	VUO35-12NO7	VUO60-08NO3
VUC36-12GO2	VUO110-18NO7	VUO22-14NO1	VUO35-14NO7	VUO60-12NO3
VUC36-14GO2	VUO120-12NO1	VUO22-16NO1	VUO35-14NO7	VUO60-14NO3

VUO60-16N03	VUO86-08N07	VVZF70-16IO7	VWO40-16IO7
VUO60-18MO3	VUO86-12N07	VW2X30-08IO1	VWO50-08IO7
VUO62-06N07	VUO86-16N07	VW2X30-12IO1	VWO50-12IO7
VUO62-08N07	VVY40-16	VW2X30-14IO1	VWO50-14IO7
VUO62-12N07	VVY40-16IO1	VW2X45-08IO1	VWO50-16IO7
VUO62-12N07	VVZ110-12	VW2X45-12IO1	VWO60-08IO7
VUO62-14N07	VVZ110-12107	VW2X45-14IO1	VWO60-12IO7
VUO62-16N07	VVZ110-12IO7	VW2X45-16IO1	VWO60-14IO7
VUO62-18N07	VVZ110-14IO7	VW2X60-08IO1	VWO60-16IO7
VUO68-08N07	VVZ12-08G01	VW2X60-12IO1	VWO80-08IO7
VUO68-12N07	VVZ12-12IO1	VW2X60-14IO1	VWO80-12IO7
VUO68-16N07	VVZ12-14IO1	VW2X60-16IO1	VWO80-14IO7
VUO70-08N07	VVZ12-16IO1	VW115-12P1	VWO85-08IO1
VUO70-12N07	VVZ175-12IO7	VW135-06P1	VWO85-12IO1
VUO70-14N07	VVZ175-14IO7	VW13X20-06P1	VWO85-14IO1
VUO70-16N07	VVZ175-16IO7	VW16-12P1	VWO85-16IO1
VUO80-08N01	VVZ24-12IO1	VWM350-0075P	VWO95-08IO7
VUO80-12N01	VVZ24-14IO1	VWO140-08IO1	VWO95-12IO7
VUO80-14N01	VVZ24-16IO1	VWO140-12IO1	VWO95-14IO7
VUO80-16N01	VVZ40-12IO1	VWO140-14IO1	VYK70-08IO7
VUO80-18N01	VVZ40-14IO1	VWO140-16IO1	VYK70-12IO7
VUO82-06N07	VVZ40-16IO1	VWO35-06HO7	VYK70-14IO7
VUO82-08N07	VVZ70-08IO7	VWO35-08HO7	VYK70-16IO7
VUO82-12N07	VVZ70-12IO7	VWO35-12HO7	WG30025SN
VUO82-14N07	VVZ70-14IO7	VWO36-08IO7	WG6018RX
VUO82-16N07	VVZ70-16IO7	VWO36-12IO7	
VUO82-18N07	VVZB120-12IO1	VWO36-14IO7	
VUO85-08N07	VVZB120-16IO1	VWO36-16IO7	
VUO85-12N07	VVZF70-08IO7	VWO40-08IO7	
VUO85-14N07	VVZF70-12IO7	VWO40-12IO7	
VUO85-16N07	VVZF70-14IO7	VWO40-14IO7	

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диоды, тиристоры,

драйверы

охладители, радиатор

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