

**Product Range**



**Rotary Switches**

- **Wire hooking versions:**  
MRC Series
- **PCB versions:**  
MRJ and 6000 Series

**Main features:**

- Adjustable stop on 1, 2 and 3 pole
- Different output coding
- Wiping contacts
- Metal shaft
- with or without knob
- PCB terminal versions
- Splashproof versions

Rotary Switches



**MRC Series, 500m Amp** .....page 12



**MRJ Series, 0.4 VA** .....page 15



**6000 Series** .....page 18

**MRC Series, 500m Amp**

**Features**

- 36° throw
- Adjustable stop on 1, 2, and 3 pole
- Insert molded terminals
- Wiping contacts



**Typical performance characteristics**

Contact timing . . . . . non-shorting  
 Contact rating . . . . . 500 mA @ 125 VAC or 28 VDC resistive  
 Electrical life . . . . . up to 10,000 cycles @ full contact rating  
 . . . . . up to 25,000 cycles @ 150 mA @125 VAC  
 . . . . . or 250 mA @ 28 VDC  
 Contact resistance, initial . . . . . 50 mOhms max.  
 Insulation resistance . . . . . 100 MOhms min.  
 Dielectric strength . . . . . 1,000 Vrms @ sea level  
 Rotation torque . . . . . 9.8 Ncm max  
 Plunger/actuator travel . . . . . 36°

**Environmental specification**

Operating temperature . . . . . -20°C to 80°C  
 Storage temperature . . . . . -20°C to 100°C  
 Solder heat resistance . . . . . manual: 270°C for 3 seconds  
 . . . . . wave: 245°C for 3 seconds

**Material specifications**

Contacts . . . . . silver  
 Case material . . . . . aluminum  
 Actuator material . . . . . brass  
 Terminals/fixed contacts . . . . . silver plated brass  
 Terminal seal . . . . . insert molded, DAP base  
 Bushing . . . . . nickel plated brass

<b>Product key</b>		Typical product key		<b>MRC</b>	<b>110</b>	<b>04</b>
<b>Type</b>	Rotary switches, 500m Amp					
<b>Number of poles, positions</b>	<b>110</b> 1 pole, 2 to 10 positions		<b>33</b> 3 poles, 2 to 3 positions			
	<b>25</b> 2 poles, 2 to 5 positions		<b>42</b> 4 poles, 2 positions (fixed)			
<b>Knob</b>	<b>S</b> shaft, no knob		<b>blank</b> knob included			
<b>Material</b>	<b>04</b> RoHS compliant					

**MRC Series, 500m Amp (Continued)**

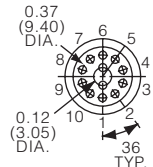
Number of poles, positions



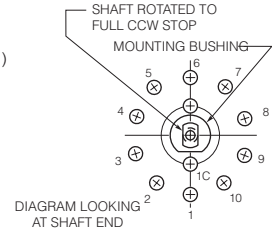
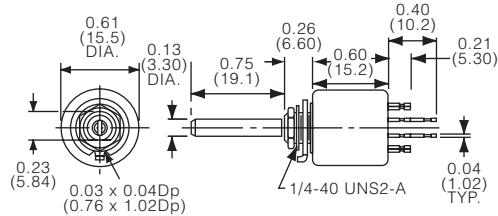
**110 1 pole, 2-10 positions, shaft without knob**



MRC110S04



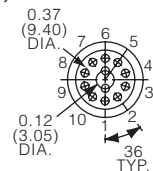
\* Two common terminals are internally shorted. Use either one.



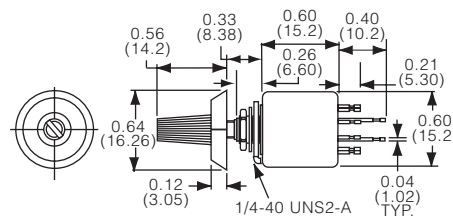
**110 1 pole, 2-10 positions, with knob**



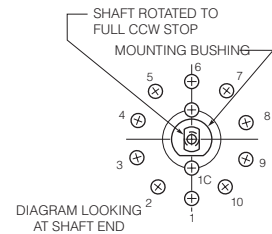
MRC11004



\* Two common terminals are internally shorted. Use either one.



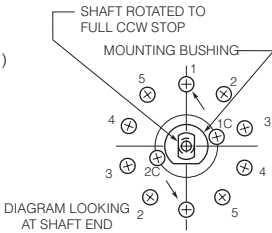
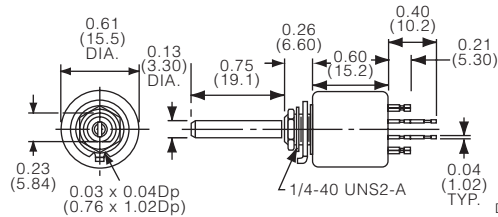
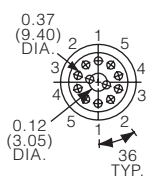
Knob not sold separately



**25 2 pole, 2-5 positions, shaft without knob**



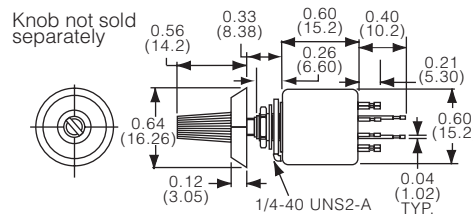
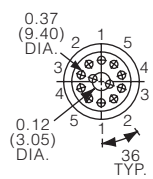
MRC25S04



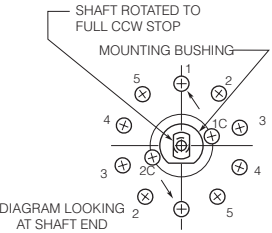
**25 2 pole, 2-5 positions, with knob**



MRC2504



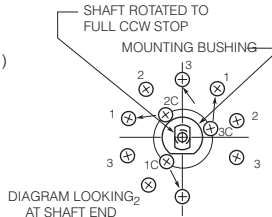
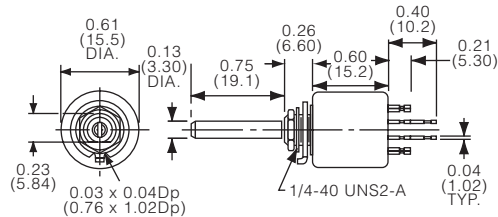
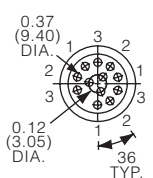
Knob not sold separately



**33 3 pole, 2-3 positions, shaft without knob**



MRC33S04

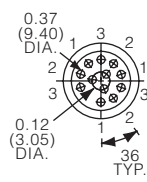


**MRC Series, 500m Amp (Continued)**

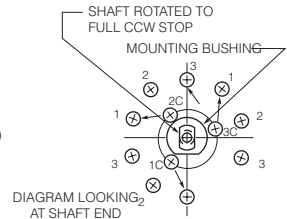
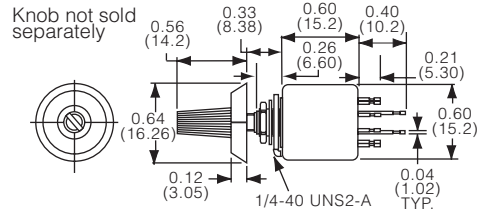
**33 3 pole, 2-3 positions, with knob**



MRC3304



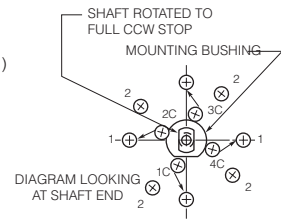
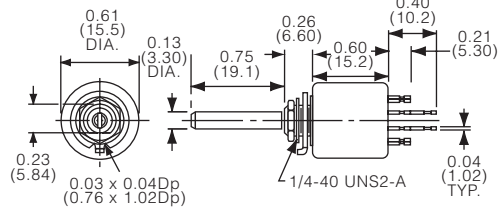
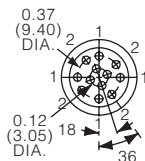
Knob not sold separately



**42 4 pole, 2 positions, shaft without knob**



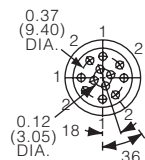
MRC42S04



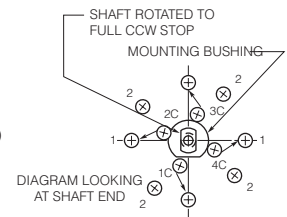
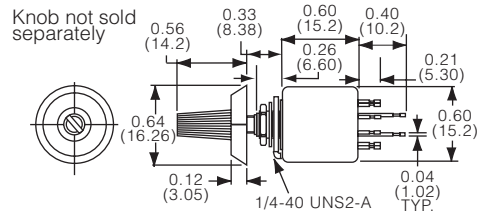
**42 4 pole, 2 positions, with knob**



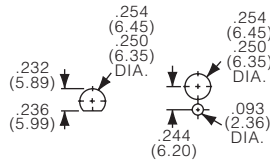
MRC4204



Knob not sold separately



**Mounting**



Product key	Poles	Positions	Knob	Part Number
MRC11004	1 pole	2 to 10	yes	1825495-1
MRC110S04			no	1825496-1
MRC2504	2 pole	2 to 5	yes	1825497-1
MRC25S04			no	1825498-1
MRC3304	3 pole	2 to 3	yes	1825499-1
MRC33S04			no	1825500-1
MRC4204	4 pole	2 (fixed)	yes	1825501-1
MRC42S04			no	1825502-1

**MRJ Series, 0.4 VA**

**Features**

- 30° throw
- PC mount
- Splashproof versions



**Typical performance characteristics**

Contact timing ..... non-shorting  
 Contact rating ..... 0.4 VA max. @ 20 VDC or peak VAC  
 Electrical life ..... up to 10,000 cycles @ full contact rating  
 ..... up to 30,000 cycles @ 0.1 mA, 12 VDC  
 Contact resistance, initial ..... 30 mOhms max.  
 Insulation resistance ..... 10,000 MOhms min.  
 Dielectric strength ..... 1,000 Vrms @ sea level  
 Rotation torque ..... 100 Nmm (14 inch oz) max.  
 Plunger/actuator travel ..... 30°C

**Environmental specification**

Operating temperature ..... -20°C to 70°C  
 Storage temperature ..... -20°C to 70°C  
 Solder heat resistance ..... 285°C ± 3°C for 15 seconds

**Material specifications**

Contacts ..... gold plate over nickel plate  
 Case material ..... zinc die cast  
 Actuator material ..... brass  
 Terminals/fixed contacts ..... gold plated  
 Terminal seal ..... molded-in epoxy base  
 Process seal ..... MRJB and MRJE

**Product key**

Typical product key

**MRJ B 112 04**

**Type**

**MRJ** Rotary switches, 0.4 VA

**Actuator shaft**

**blank** standard shaft  
**E** standard shaft, splashproof  
**B** screwdriver slot, splashproof

**Number of poles, positions**

**standard**  
**112** 1 pole, 2 to 12, adjustable or continuous rotation  
**26** 2 poles, 2 to 6, adjustable  
**34** 3 poles, 2 to 4, adjustable  
**43** 4 poles, 2 to 3, adjustable  
**splashproof**  
**112** 1 pole, 12 continuous rotation (splashproof)  
**26** 2 poles, 6 fixed (splashproof)  
**34** 3 poles, 4 fixed (splashproof)  
**43** 4 poles, 3 fixed (splashproof)

**Material**

**04** RoHS compliant

**MRJ Series, 0.4 VA (Continued)**

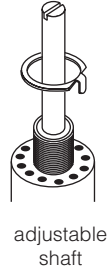
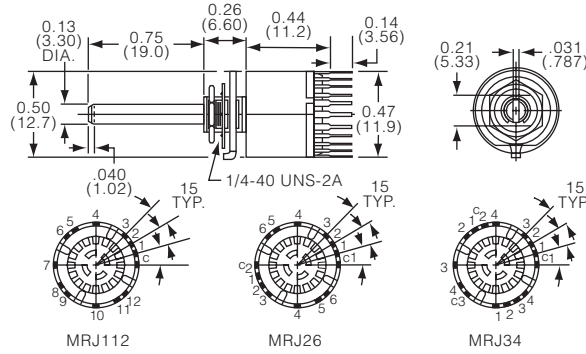
Actuator shaft



**blank standard shaft, adjustable**



MRJ2604

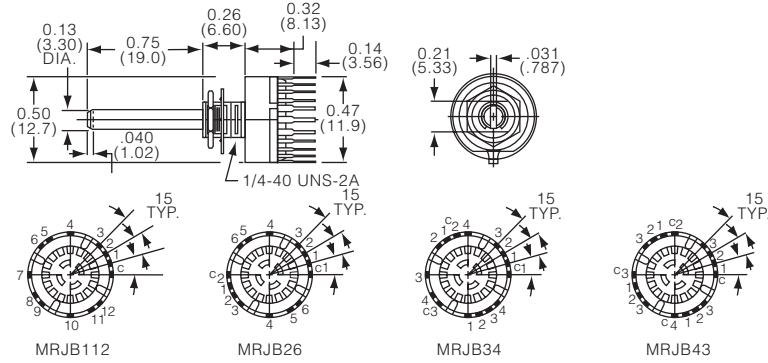


adjustable shaft

**E standard shaft, splashproof**



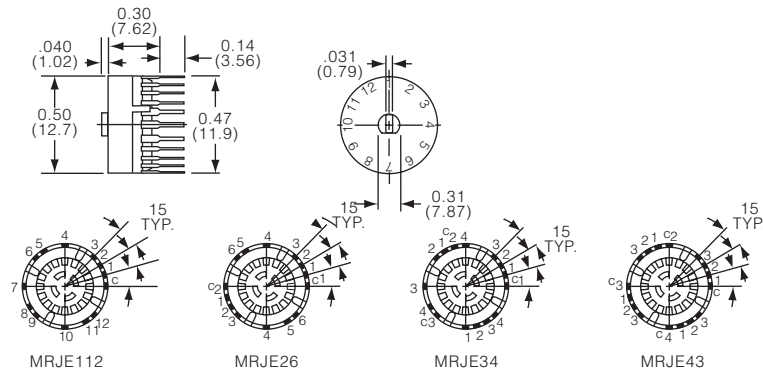
MRJE2604



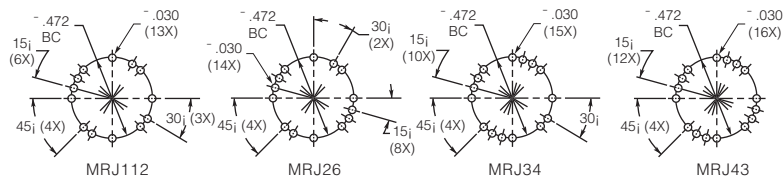
**B screwdriver slot, splashproof**



MRJB2604

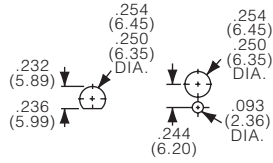


**Mounting**



**MRJ Series, 0.4 VA** (Continued)

**Mounting**



Product key	Actuator shaft	Poles	Positions	Pos. conditions	Part Number
MRJ11204	standard shaft	1 pole	2 to 12 or 12	adjustable or cont. rot.	1825535-1
MRJ2604		2 pole	2 to 6		adjustable
MRJ3404		3 pole	2 to 4		1825535-3
MRJ4304		4 pole	2 to 3		1825535-4
MRJB11204	standard shaft splashproof	1 pole	12	continous rotation	1825536-1
MRJB2604		2 pole	6	fixed	1825536-2
MRJB3404		3 pole	4		1825536-3
MRJB4304		4 pole	3		1825536-4
MRJE11204	screwdriver slot splashproof	1 pole	12	continous rotation	1825537-1
MRJE2604		2 pole	6	fixed	1825537-2
MRJE3404		3 pole	4		1825537-3
MRJE4304		4 pole	3		1825537-4

**6000 Series**

**Features**

- Compact design
- Positive detent action
- Variety of outputs
- Large readable characters



**Typical performance characteristics**

Contact timing . . . . . non-shorting  
 Contact rating . . . . . 0.4 VA max. @ 20 VDC or peak VAC  
 Electrical life . . . . . 10,000 cycles @ full contact rating  
 . . . . . 30,000 cycles @ 0.1 mA, 12 VDC  
 Contact resistance, initial . . . . . 30 mOhms max.  
 Insulation resistance . . . . . 10,000 MOhms min.  
 Dielectric strength . . . . . 1,000 Vrms @ sea level  
 Rotation torque . . . . . 100 Nmm (14 inch oz) max.  
 Plunger/actuator travel . . . . . 30°  
 Product specification . . . . . 108-7514  
 Instruction sheet . . . . . 408-7523  
 Application specification . . . . . 114-7005

**Environmental specification**

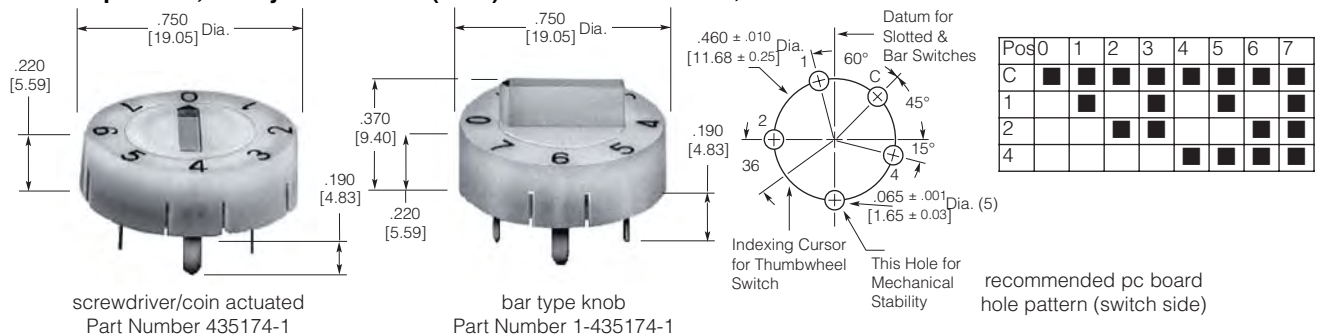
Operating temperature . . . . . -18°C to 88°C  
 Storage temperature . . . . . -45°C to 88°C  
 Humidity . . . . . +40°C and 95% RH for 96 hours

**Material specifications**

Contacts . . . . . phosphor bronze, gold over nickel plated  
 Solder tabs and pins . . . . . beryllium copper, tin plated  
 Coded switches . . . . . beryllium copper, tin plated  
 Single pole switches . . . . . brass, tin plated  
 Structural parts . . . . . thermoplastic

**6000 Series, rotary switches, pc mount**

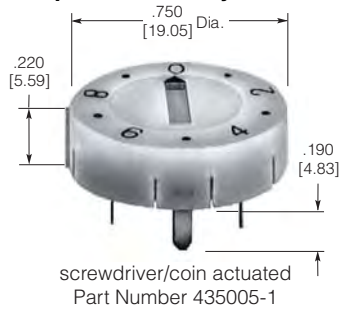
**8 position, binary coded octal (BCO) Part Numbers 435174-1, 1-435174-1**





**6000 Series (Continued)**

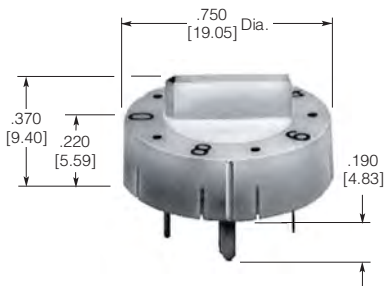
**10 position, binary coded decimal (BCD) Part Numbers 435005-1, 435123-1, 435128-1**



screwdriver/coin actuated  
Part Number 435005-1

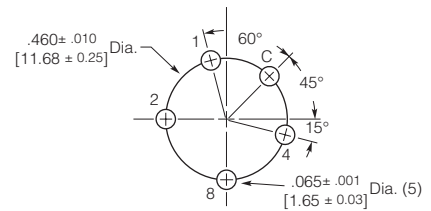


thumbwheel  
Part Number 435128-1



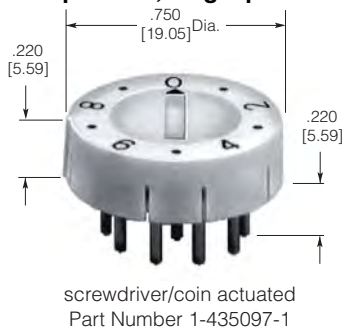
bar type knob  
Part Number 1-435123-1

recommended pc board hole pattern (switch side)

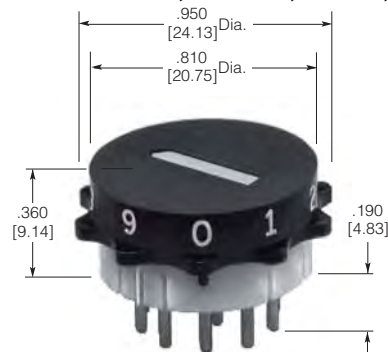


Pos	0	1	2	3	4	5	6	7	8	9
C	■	■	■	■	■	■	■	■	■	■
1		■		■		■		■		■
2			■	■			■	■		
4					■	■	■	■		
8									■	■

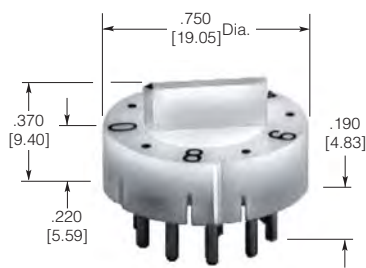
**10 position, single pole Part Numbers 1-435097-1, 2-435097-1, 435097-1, 435097-2**



screwdriver/coin actuated  
Part Number 1-435097-1

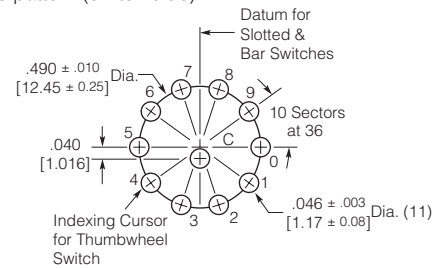


thumbwheel  
Part Number 435097-1 (shown)  
Part Number 435097-2 (with numbers 1-10)



bar type knob  
Part Number 2-435097-1

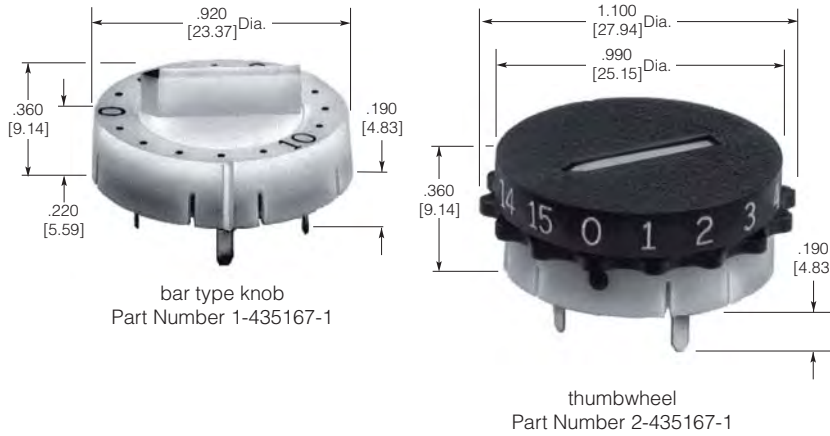
recommended pc board hole pattern (switch side)



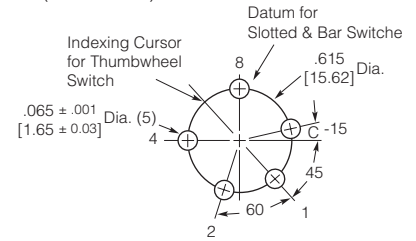
P.	0	1	2	3	4	5	6	7	8	9
C	■	■	■	■	■	■	■	■	■	■
0	■									
1		■								
2			■							
3				■						
4					■					
5						■				
6							■			
7								■		
8									■	
9										■

**6000 Series** (Continued)

**16 position, hexadecimal Part Numbers 1-435167-1, 2-435167-1**



recommended pc board hole pattern (switch side)



P.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1		■														
2			■	■				■	■			■	■			
4					■	■								■	■	
8										■	■	■	■	■	■	■

Positions	Actuator type	Coding	Part Number
10	screwdriver/coin	single pole	1-435097-1
16	bar	hexadecimal	1-435167-1
8		binary coded octal	1-435174-1
10		single pole	2-435097-1
16	thumbwheel	hexadecimal	2-435167-1
10	screwdriver/coin	BCD	435005-1
10	thumbwheel	single pole	435097-1
10	bar	BCD	435123-1
8	screwdriver/coin	binary coded octal	435174-1



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Благодаря развитой сети поставщиков, помогаем в поиске и приобретении экзотичных или снятых с производства компонентов.

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