

Washers / Collars - Fluororesin / Epoxy Glass / PEEK

Square Resin Washers / Extra Thin Resin Sheets

Washer	Collar	Collar with Flange	Material
EPOW	EPOC	EPOB	Epoxy Glass
PTW	PTC	PTB	Fluororesin (Polytetrafluoroethylene)
PKW	PKC	PKB	PEEK

Material Properties P141

Washer

Part Number	Type	D	V Selection				T	Unit Price		
			EPOW	PTW	PKW					
10	3	4	5	6						
12	4	5	6	8						
14	4	5	6	8	10					
15	4	5	6	8	10					
16	5	6	8	10						
20	5	6	8	10	12					
25	6	8	10	12						
30		10	12	16						
35		12	16							
40										

Collar

Part Number	Type	V	D Selection				L 1mm Increment
			EPOC	PTC	PKC		
2	5	6	8	10		5~30	
3	5	6	8	10	12	14	
4	6	8	10	12	14	15	
5	8	10	12	14	15	16	20
6	8	10	12	14	15	16	20
8		12	14	15	16	20	25
10			14	15	16	20	25
12				20	25	30	
16				20	25	30	
20				25	30		

Machining Conditions L≤Dx3, only for PTC

Part Number	Type	V	Unit Price											
			EPOC			PTC			PKC					
2			L5~25	L26~50	L51~75	L76~100	L5~25	L26~50	L51~75	L76~100	L5~25	L26~50	L51~75	L76~100
3														
4														
5														
6														
8														
10														
12														
16														
20														

Collar with Flange

Part Number	Type	V	L Selection			H	D	T	Unit Price		
			EPOB	PTB	PKB						
3	8	10	15	20	10	6	5				
4					12	8					
5					15	10					
6					20	10					
8					25	12					
10			10	15	20	25					
12					30	14					
16			15	20	25						

One Through Hole	Two Through Holes	Two Countersunk Holes	Two Counterbored Holes	Material	Color
WSRJ	WSRR	WSRP	WSRZ	Polyacetal	White
WSRJ	WSRR	WSRP	WSRZ	MC Nylon Standard Grade	Blue

Material Properties P141

One Through Hole

Part Number	Type	A	B 1mm Increment	P 0.5mm Increment (P≤B/2)	T	Screw Nominal Dia.	d	Unit Price	
								WSRJ	WSRJ
6	8	10	12	15	2	3	3.5		
8	8	10	12	15	3	3	3.5		
10	10	12	15	20	4	4	4.5		
12	12	15	20	25	5	4	4.5		
15	15	20	25	30	6	5	5.5		
20	20	25	30	40	8	6	6.5		
25	25	30	40	50	10	8	9		

Two Through Holes

Part Number	Type	A	B 1mm Increment	P 0.5mm Increment (P≤B-2P1)	T	Screw Nominal Dia.	d	P1	Unit Price	
									WSRR	WSRR
6	8	10	12	15	2	3	3.5	3		
8	8	10	12	15	3	3	3.5	4		
10	10	12	15	20	4	4	4.5	5		
12	12	15	20	25	5	4	4.5	6		
15	15	20	25	30	6	5	5.5	7.5		
20	20	25	30	40	8	6	6.5	10		
25	25	30	40	50	10	8	9	12.5		

Two Countersunk Holes

Part Number	Type	A	B 1mm Increment	P 0.5mm Increment (P≤B-2P1)	T	Screw Nominal Dia.	d	d1	h	P1	Unit Price	
											WSRP	WSRP
10	12	15	20	25	3	3	3.5	7.5	2	5		
12	12	15	20	25	4	4	4.5	9.5	2.5	6		
15	15	20	25	30	5	5	5.5	11.5	3	7.5		
20	20	25	30	40	6	6	6.5	13.5	3.5	10		
25	25	30	40	50	8	8	9	19	5	12.5		

Two Counterbored Holes

Part Number	Type	A	B 1mm Increment	P 0.5mm Increment (P≤B-2P1)	T	Screw Nominal Dia.	d	d1	h	P1	Unit Price	
											WSRZ	WSRZ
10	12	15	20	25	6	3	3.5	6.5	4	5		
12	12	15	20	25	8	4	4.5	8	5	6		
15	15	20	25	30	5	5	5.5	9.5	6	7.5		
20	20	25	30	40	10	6	6.5	11	7	10		
25	25	30	40	50	12	8	9	14	9	12.5		

Ordering Example: Part Number - B - P
WSRJ10 - 25 - 12.5

Alterations: Part Number - B - P - (NA)
WSRJ20 - 60 - 150 - NA30

Extra Thin Resin Sheets
Polyacetal, Fluororesin, Polycarbonate

Type	Material	Color	Thickness (T) Tolerance			
CIRAJ	Polyacetal	White	0.1	0.2	0.3	0.5
CIRAT	Fluororesin	White	±0.03	±0.04	±0.07	
CIRAP	Polycarbonate	Transparent	±0.01	±0.02	±0.03	±0.05

Ordering Example: Part Number - A - B
CIRAJ0.2 - 100 - 20

Slotted Hole

Alterations: NA

Code: NA

Spec: Changes the through hole to the slotted hole. (Applicable to One Through Hole and Two Through Holes Type only.)
Ordering Code (Specify in 0.5mm increments.)
NA15
Machining Conditions
One Hole: 1≤NA≤B-P-d/2-1.25
Two Holes: 1≤NA≤P-d-1.25

Part Number	Type	T	A	B	Unit Price											
					CIRAJ	CIRAT	CIRAP	CIRAJ	CIRAT	CIRAP						
20, 30, 40, 50, 60, 70, 80, 90, 100, 150		20			T0.2	0.3	0.5	1.0	T0.1, 0.2	0.3	0.5	1.0	T0.1, 0.2	0.3	0.5	1.0
30, 40, 50, 60, 70, 80, 90, 100, 150, 200		30														
40, 50, 60, 70, 80, 90, 100, 150, 200		40														
50, 60, 70, 80, 90, 100, 150, 200		50														
60, 70, 80, 90, 100, 150, 200		60														
100, 150, 200		100														

* CIRAJ is not available for T0.1.