

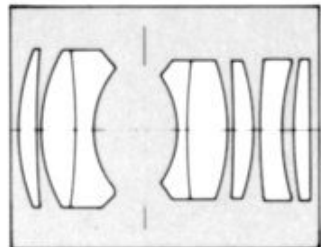
TAMRON

Model 52B

Tele-Macro
Super Portrait

90mm F/2.5

Tele-Macro Super Portrait



Tamron SP 90mm F/2.5 Macro Model 52B and 52BB: A very good 1:2 macro lens with above average resolution and contrast. Performance is fairly similar to Kiron's 105mm F/2.8 macro lens. Contrast is noticeably improved by using the accessory lens hood to control stray light since the front elements are barely recessed in the front of the lens. The model 52BB is merely a cosmetically redesigned version of the original 52B. Tamron made an optional accessory 1:1 extension tube for this lens. Alternatively you can achieve 1:1 macro with good performance by using either a Tamron SP 2x converter, a Kiron 7 element 2x converter, or a Tokina 7 element 2x converter. Optimal aperture at all focus distances down to 1:4 is F/8. Optimal aperture between 1:4 and 1:1 is F/11.

Lens Specifications:

Lens Model	52B
Focal Length	90mm
Aperture Range	f/2.5 — 32, AE
Angle of View	27°
Optical Construction (Groups / Elements)	6 / 8
Min. Focus from Film Plane	15.3" (0.39m)
Macro Mag. Ratio [w/2X Converter]	1:2 [1:1]
Filter Size	49mm
Diameter	2.5" (64.5mm)
Length at Infinity in. (mm) w/Nikon mount	2.6" (66mm) [2.8" (70.5mm)]
Weight	14.8 oz. (420g)
Lens Hood	Screw-in type #23FH (optional extra).
Accessory	Accepts SP 2X tele-converter #01F.

Tamron SP 90mm F/2.5	
PERFORMANCE	
Modern Photo's Standard	as Tested
Focal length: ±5% (85.50-94.50mm)	88.49mm
Aperture: ±5% (f/2.38-2.63)	f/2.58
Distortion: (±2.0%) less than 0.5% (pincush.)	
Light falloff: at f/5.6 +1 stop from theoretical limit (0-1.15 stops)	0.15 stops

Tamron SP 90mm F/2.5				
F/no.	RESOLUTION at 1:48 magnification		CONTRAST (30 lines/mm)	
	Center Lines/mm	Corner Lines/mm	Center %	Corner %
2.5	49	55	49	28
4	62	55	72	54
5.6	62	55	76	60
8	69	62	66	55
11	69	62	64	52
16	62	62	53	47
22	55	49	45	40
32	44	44	33	30

Tamron SP 90mm F/2.5		
F/no.	MACRO RESOLUTION at 1:4 magnification	
	Center Lines/mm	Center Lines/mm
2.5	41	46
4	58	52
5.6	65	52
8	58	58
11	58	58
16	58	52
22	52	52
32	52	52

Tamron SP 90mm F/2.5		
F/no.	MACRO RESOLUTION at 1:2 magnification	
	Center Lines/mm	Center Lines/mm
2.5	33	33
4	37	33
5.6	47	33
8	53	47
11	59	59
16	59	59
22	53	53
32	53	47