

SDC-4, SCW, & SRT -x Series

Solder Back Indoor/Outdoor Directional Couplers & Tapoffs



SDC-4

○ Features & Benefits

- 4 Port 1 GHz Tap
- 120 dB RFI Shielding
- Available in 6 Values from 8 to 30 dB
- 5 to 1000 MHz Frequency Range

○ Specifications

SDC-4

Tap Value (dB)	8	12	16	20	24	30
Tap Loss (dB)						
10 - 400 MHz (±1.0):	8.0	11.0	16.0	20.0	24.0	29.0
400 - 550 MHz (±1.5):	8.0	11.0	16.0	20.0	24.0	29.0
5-10 & 550 - 1000 MHz (±2.5):	8.0	11.0	16.0	20.0	24.0	29.0
Isolation Tap-to-Tap (dB)						
10-550 MHz:	27	27	27	27	27	27
5-10 & 550 - 1000 MHz:	22	22	22	22	22	22
Isolation Out-to-Tap (dB)						
5 - 400 MHz: Terminated		24	31	33	37	42
400 - 500 MHz:		24	26	31	34	40
500 - 1000 MHz:		21	23	27	29	35
Thru-line Loss (dB)						
@ 5 Mhz: No Thru Line		2.5	1.0	0.7	0.7	0.5
@ 300 MHz:		3.5	1.0	0.7	0.6	0.5
@ 400 MHz:		4.0	1.5	1.1	0.8	0.7
@ 500 MHz:		4.5	1.8	1.3	1.2	0.8
@ 1000 MHz:		5.5	2.0	1.5	1.3	1.0
Input Return Loss (dB)						
10 - 100 MHz:	20	20	20	20	20	20
400 - 550 MHz::	17	17	17	17	17	17
550 - 1000 MHz:	14	14	14	14	14	14

○ Features & Benefits

- 1 GHz Bandwidth
- 1 Port Directional Couplers - "L" Style (SCW), "T" Style (SRT)
- 120 dB RFI Shielding
- Die Cast Housing



SCW



SRT

○ Specifications

SCW

Tap Value	4	6	9	12	16	20	24	27	30
Tap Loss (±1.0 dB):	3	6	9	12	16	20	24	27	30
Isolation Out-to-Tap (dB)									
5 - 470 MHz:	20	22	24	30	30	36	36	40	40
470 - 1000 MHz:	18	20	20	24	26	30	30	30	30
Thru-line Loss (dB)									
5 - 470 MHz:	3.5	3.0	1.2	0.9	0.7	0.6	0.5	0.5	0.5
470 - 900 MHz:	4.0	3.5	1.6	1.5	0.7	0.7	0.6	0.6	0.6
900 - 1000 MHz:	4.5	4.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5
Input Return Loss (dB)									
5 - 470 MHz:	15	15	15	20	20	20	20	20	20
470 - 900 MHz:	12	13	16	18	18	18	18	18	18

SRT

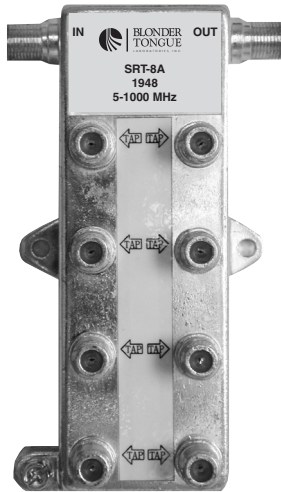
Tap Value	4	6	9	12	16	20	24	27	30
Tap Down Loss (±1.0 dB):	3	6	9	12	16	20	24	27	30
Isolation Out-to-Tap (dB)									
5 - 400 MHz:	20	22	24	30	30	36	36	40	40
400 - 1000 MHz:	18	20	20	24	26	30	30	30	30
Thru-line Loss (dB)									
5 - 400 MHz:	3.5	3.0	1.2	0.9	0.7	0.6	0.5	0.5	0.5
400 - 900 MHz:	4.0	3.5	1.6	1.5	0.7	0.7	0.6	0.6	0.6
900 - 1000 MHz:	4.5	4.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5
Input Return Loss (dB)									
5 - 400 MHz:	15	15	15	20	20	20	20	20	20
400 - 900 MHz:	12	13	16	18	18	18	18	18	18

○ Ordering Information (Specify Tap Value)

Model	Stock No.	Description
SCW	1930	Directional Tap, 1 Output 5-1000 MHz, L Style, Values: 4, 6, 9, 12, 16, 20, 24, 27, 30 dB
SDC-4	1950	Directional Tap, 4 Output 5-1000 MHz, In-Line Style, Values: 8, 12, 16, 20, 24, 30 dB
SRT	1940	Directional Tap, 1 Output 5-1000 MHz, T Style, Values: 4, 6, 9, 12, 16, 20, 24, 27, 30 dB

SRT-2,4, & 8A

Solder Back Directional Couplers



Blonder Tongue's SRT Series of indoor 1GHz taps are the standard for directional couplers used in broadband systems such as those in educational, correctional, commercial, and MDU's. Models are available with 2, 4, and 8 tap ports and have tap values from 35 dB to 4 dB (model dependant) in 3 dB increments. All models have die-cast housings and provide RFI shielding of 120 dB.

○ Features & Benefits

- 1 GHz Bandwidth
- 2,4 and 8 Port Models
- 120 dB RFI Shielding
- Diecast Housing
- Built-in Ground Block

○ Specifications

SRT-2A

Tap Value

Tap Loss (± dB)

5 - 450 MHz:

450 - 750 MHz:

750 - 1000 MHz:

Insertion Loss (dB)

5 - 50 MHz:

50 - 450 MHz:

450 - 750 MHz:

750 - 1000 MHz:

Isolation Tap-to-Tap (dB):

5 - 10 MHz:

10 - 450 MHz:

450 - 750 MHz:

750 - 1000 MHz:

Isolation Out-to-Tap (dB)

5 - 50 MHz:

50 - 450 MHz:

450 - 750 MHz:

750 - 1000 MHz:

Return Loss (IN/OUT) (dB)

5 - 10 MHz:

10 - 50 MHz:

50 - 750 MHz:

750 - 1000 MHz:

Return Loss (Tap) (dB)

5 - 10 MHz:

10 - 50 MHz:

50 - 750 MHz:

750 - 1000 MHz:

	4	8	11	14	17	20	23	26	29	32
Tap Loss (± dB)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5 - 450 MHz:	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
450 - 750 MHz:	1.0	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
750 - 1000 MHz:	1.0	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0
Insertion Loss (dB)										
5 - 50 MHz:	*	3.0	2.3	1.2	1.0	0.9	0.7	0.7	0.7	0.7
50 - 450 MHz:	*	3.2	2.5	1.2	1.0	0.9	0.7	0.7	0.7	0.7
450 - 750 MHz:	*	3.3	2.6	1.5	1.3	1.2	1.2	1.0	1.0	1.0
750 - 1000 MHz:	*	3.5	3.0	2.2	1.8	1.2	1.2	1.2	1.2	1.2
Isolation Tap-to-Tap (dB):										
5 - 10 MHz:									22	
10 - 450 MHz:									26	
450 - 750 MHz:									25	
750 - 1000 MHz:									22	
Isolation Out-to-Tap (dB)										
5 - 50 MHz:	-	26	31	33	35	36	38	38	38	40
50 - 450 MHz:	-	23	26	28	32	33	35	35	35	35
450 - 750 MHz:	-	23	26	26	28	30	30	30	32	35
750 - 1000 MHz:	-	22	24	25	26	29	30	30	32	35
Return Loss (IN/OUT) (dB)										
5 - 10 MHz:	18	16	18	18	18	18	18	18	18	18
10 - 50 MHz:	20	18	20	20	20	20	20	20	20	20
50 - 750 MHz:	18	18	20	20	20	20	20	20	20	20
750 - 1000 MHz:	16	16	16	16	16	16	16	16	16	16
Return Loss (Tap) (dB)										
5 - 10 MHz:									16	
10 - 50 MHz:									18	
50 - 750 MHz:									20	
750 - 1000 MHz:									18	

* Terminated

SRT-2,4, & 8A

Solder Back Directional Couplers

○ Specifications

SRT-4A

Tap Value	8	11	14	17	20	23	26	29	32	35
Tap Loss (± dB)										
5 - 450 MHz:	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
450 - 750 MHz:	1.0	1.0	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0
750 - 1000 MHz:	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Insertion Loss (dB)										
5 - 50 MHz:	*	3.5	1.9	1.2	0.8	0.9	0.7	0.7	0.7	0.7
50 - 450 MHz:	*	3.6	2.2	1.2	1.0	0.9	0.7	0.7	0.7	0.7
450 - 750 MHz:	*	3.8	2.3	1.5	1.2	1.0	0.9	0.8	0.8	0.8
750 - 1000 MHz:	*	4.4	2.5	2.0	1.4	1.2	1.0	1.0	1.0	1.0
Isolation Tap-to-Tap (dB):										
5 - 10 MHz:							22			
10 - 450 MHz:							26			
450 - 750 MHz:							25			
750 - 1000 MHz:							22			
Isolation Out-to-Tap (dB)										
5 - 10 MHz:	-	24	28	35	36	38	38	40	43	45
10 - 50 MHz:	-	24	28	32	35	35	38	38	39	40
50 - 450 MHz:	-	26	28	30	32	35	36	36	39	40
450 - 750 MHz:	-	26	26	25	30	32	34	34	35	36
750 - 1000 MHz:	-	25	25	25	26	28	30	32	35	36
Return Loss (IN/OUT) (dB)										
5 - 10 MHz:	18	18	16	18	18	18	18	18	18	18
10 - 50 MHz:	20	20	18	20	20	20	20	20	20	20
50 - 450 MHz:	18	18	18	20	20	20	20	20	20	20
450 - 750 MHz:	18	18	18	18	18	18	18	18	18	18
750 - 1000 MHz:	16	16	16	16	16	16	16	16	16	16
Return Loss (TAP) (dB)										
5 - 10 MHz:							18			
10 - 750 MHz:							20			
750 - 1000 MHz:							18			

○ Specifications

SRT-8A

Tap Value	11	14	17	20	23	26	29	32	35
Tap Loss (± dB)									
5 - 450 MHz:	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
450 - 750 MHz:	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
750 - 1000 MHz:	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Insertion Loss (dB)									
5 - 50 MHz:	*	3.5	1.9	1.2	0.8	0.8	0.7	0.7	0.7
50 - 450 MHz:	*	4.0	2.3	1.5	1.0	0.9	0.8	0.8	0.8
450 - 750 MHz:	*	4.2	2.4	1.8	1.2	1.0	1.0	1.0	1.0
750 - 1000 MHz:	*	4.5	2.5	2.0	1.4	1.2	1.0	1.0	1.0
Isolation Tap-to-Tap (dB):									
5 - 10 MHz:							22		
10 - 450 MHz:							26		
450 - 750 MHz:							25		
750 - 1000 MHz:							22		
Isolation Out-to-Tap (dB)									
5 - 10 MHz:	-	30	28	36	36	38	38	38	38
10 - 50 MHz:	-	30	28	35	36	35	36	36	36
50 - 450 MHz:	-	26	25	32	33	32	32	32	32
450 - 750 MHz:	-	24	24	30	30	30	30	30	30
750 - 1000 MHz:	-	24	24	26	26	28	28	28	30
Return Loss (IN/OUT) (dB)									
5 - 10 MHz:	18	18	16	18	18	18	18	18	18
10 - 50 MHz:	20	20	18	20	20	20	20	20	20
50 - 450 MHz:	20	20	18	20	20	20	20	20	20
450 - 750 MHz:	18	18	18	18	18	18	18	18	18
750 - 1000 MHz:	16	16	16	16	16	16	16	16	16
Return Loss (TAP) (dB)									
5 - 10 MHz:							18		
10 - 750 MHz:							20		
750 - 1000 MHz:							18		

* Terminated

○ Ordering Information (Specify Tap Value)

Model	Stock No.	Description
SRT-2a	1942	Directional Tap, 2 Output 5-1000 MHz, In-Line Style, Values: 4, 8, 11, 14, 17, 20, 23, 26, 29, 32 dB
SRT-4a	1944	Directional Tap, 4 Output 5-1000 MHz, In-Line Style, Values: 8, 11, 14, 17, 20, 23, 26, 29, 32, 35 dB
SRT-8a	1948	Directional Tap, 8 Output 5-1000 MHz, In-Line Style, Values: 11, 14, 17, 20, 23, 26, 29, 32, 35 dB