

Subscriber Module Interdiction - Accessories

Each SMIU consists of a die cast housing equipped with a power supply, seizure board, motherboard and combiner. The directional coupler and equalizer plug into the seizure board:

Seizure Board -taps RF and power from the feeder cable.

Directional Coupler - directs a portion of the RF signal to the SMI motherboard and other components.

Equalizer - controls tilt of the subscriber output signal. Does not affect the feeder cable or reverse path.

Motherboard - provides the AGC and interface for the subscriber modules and data receiver. It also contains a microprocessor that stores the subscriber port addresses and service levels in non-volatile memory. This allows a subscriber module to be moved from one slot or housing to another without any database change.

Subscriber Modules - dedicated on a per-subscriber basis that contain the jamming electronics and the forward and reverse connect/disconnect circuitry. Additionally, each module has a power passing jumper slot. When installed in a power passing housing with an optional jumper, the subscriber module passes power to the home

750 MHz DC Insertion Loss and DC Coupled Port Loss Tables

DC Value	Stock #	DC Feeder Insertion Loss				DC Coupler Port Loss*					
		Reverse Path		Forward Path		Reverse Path		Forward Path			
		5 MHz	40 MHz	51 MHz	550 MHz	750 MHz	5 MHz	40 MHz	51 MHz	550 MHz	750 MHz
0.0	291659	Terminating		Terminating		0.3	0.8	0.7	0.7	0.7	
1.0	291611	Terminating		Terminating		0.8	1.3	1.7	1.7	1.7	
2.0	378224	Terminating		Terminating		1.8	2.3	2.7	2.7	2.7	
3.0	378225	Terminating		Terminating		2.8	3.3	3.7	3.7	3.7	
4.0	562958	2.5	2.5	3.5	3.9	4.2	8.2	6.1	5.4	5.2	5.3
5.0	562959	2.4	2.4	3.5	3.9	4.2	8.8	7.0	6.3	6.4	6.7
6.0	562960	2.3	1.8	2.1	2.4	2.7	6.7	7.5	7.0	7.4	9.8
7.5	562961	2.3	1.8	2.1	2.5	2.7	7.7	8.4	8.0	8.3	10.6
9.0	562962	2.1	1.4	1.4	2.1	2.4	9.5	10.5	10.2	9.3	9.4
10.5	562963	2.1	1.4	1.4	2.1	2.4	10.1	11.3	11.1	10.0	9.9
12.0	562964	1.4	1.0	0.8	1.3	1.7	12.0	12.8	12.7	11.1	11.6
13.5	562965	1.4	1.0	0.8	1.3	1.7	13.5	14.3	14.2	12.3	12.2
15.0	562966	1.2	0.8	0.8	1.3	1.7	15.0	15.7	15.6	13.3	13.4
16.5	562967	1.2	0.8	0.7	1.1	1.4	16.4	17.1	17.0	14.8	14.6
18.0	562968	1.3	0.8	0.7	1.1	1.4	17.8	18.4	18.4	15.1	14.3
19.5	562969	1.3	0.8	0.7	1.1	1.4	19.6	20.2	20.2	16.4	15.6
21.0	562970	1.3	0.8	0.7	1.1	1.4	20.9	21.4	21.4	17.1	15.9
22.5	562971	1.3	0.8	0.7	1.1	1.4	22.3	22.9	22.9	18.3	16.9
24.0	562972	1.3	0.8	0.7	1.1	1.4	23.9	24.5	24.5	19.5	17.8
25.5	562973	1.3	0.8	0.7	1.1	1.4	25.5	26.1	26.2	21.5	20.3
27.0	562974	1.3	0.8	0.7	1.1	1.4	26.8	27.4	27.4	22.1	20.5
28.5	562975	1.3	0.8	0.7	1.1	1.4	28.3	28.8	29.0	22.8	20.4
30.0	562976	1.3	0.8	0.7	1.1	1.4	29.8	30.3	30.5	23.4	20.5
31.5	562977	1.3	0.8	0.7	1.1	1.4	30.9	31.3	31.6	23.7	20.4

* All forward and reverse DC coupled port losses include the additional loss of the diplex filter

750 MHz EQ Insertion Loss Tables

DC Value	Stock #	51 MHz	550 MHz	750 MHz
-9.0	562996	2.7	9.1	10.4
-7.5	562995	1.9	7.5	8.5
-6.0	562994	1.4	5.9	6.2
-4.5	562993	1.6	4.4	4.8
-3.0	562992	0.1	2.7	3.0
-1.5	562991	0.1	1.3	1.5
0.0	566057	0.1	0.1	0.2
1.5	562978	1.9	1.2	0.9
3.0	562979	2.9	1.3	0.8
4.5	562980	4.1	1.5	0.8
6.0	562981	5.4	1.8	0.9
7.5	562982	6.5	1.9	0.7
9.0	562983	7.5	2.1	0.7
10.5	562984	8.8	2.5	0.9
12.0	562985	10.0	2.9	1.0
13.5	562986	11.4	3.4	1.3
15.0	562987	12.2	3.3	0.9
16.5	562988	13.6	3.8	1.0
18.0	562989	14.7	3.8	0.8
19.5	562990	15.6	4.0	0.9

4-Port Power Consumption

Volts	Housing Only		w/1 Module		w/2 Modules		w/3 Modules		w/4 Modules	
	Current	Watts	Current	Watts	Current	Watts	Current	Watts	Current	Watts
35.00	0.09	2.35	0.17	5.35	0.26	7.74	0.36	11.07	0.50	14.74
40.00	0.08	2.45	0.16	5.27	0.23	7.85	0.32	10.96	0.43	14.25
45.00	0.08	2.56	0.14	5.18	0.20	7.95	0.27	10.86	0.37	13.76
50.00	0.07	2.64	0.13	5.34	0.19	7.99	0.26	10.68	0.33	13.60
55.00	0.07	2.73	0.13	5.50	0.18	8.02	0.24	10.50	0.30	13.44
60.00	0.07	2.88	0.12	5.50	0.17	8.04	0.22	10.60	0.28	13.30
65.00	0.06	3.04	0.11	5.50	0.16	8.06	0.21	10.71	0.26	13.17
70.00	0.06	3.04	0.11	5.71	0.15	8.25	0.20	10.66	0.24	13.43
75.00	0.06	3.04	0.10	5.92	0.15	8.44	0.19	10.61	0.23	13.69
80.00	0.07	3.15	0.10	6.01	0.14	8.52	0.19	10.77	0.22	13.81
85.00	0.07	3.25	0.10	6.10	0.14	8.61	0.19	10.94	0.21	13.94
90.00	0.07	3.36	0.10	6.19	0.13	8.69	0.18	11.11	0.21	14.07

8-Port Power Consumption

Volts	Housing Only		w/1 Module		w/2 Modules		w/3 Modules		w/4 Modules	
	Current	Watts	Current	Watts	Current	Watts	Current	Watts	Current	Watts
35.00	0.18	5.25	0.26	7.81	0.36	10.33	0.44	12.92	0.57	16.74
40.00	0.17	5.20	0.24	7.79	0.32	10.36	0.40	12.92	0.50	16.24
45.00	0.15	5.15	0.21	7.77	0.28	10.40	0.35	12.92	0.43	15.75
50.00	0.14	5.27	0.20	7.89	0.26	10.50	0.32	12.94	0.39	15.70
55.00	0.13	5.40	0.19	8.02	0.25	10.61	0.30	12.96	0.36	15.65
60.00	0.13	5.48	0.18	8.23	0.23	10.71	0.28	13.11	0.34	15.77
65.00	0.13	5.57	0.18	8.44	0.22	10.82	0.27	13.27	0.32	15.90
70.00	0.13	5.85	0.17	8.63	0.22	11.08	0.26	13.56	0.30	16.03
75.00	0.13	6.13	0.17	8.82	0.21	11.34	0.25	13.86	0.29	16.17
80.00	0.13	6.44	0.16	9.12	0.21	11.66	0.24	14.10	0.28	16.31
85.00	0.13	6.76	0.16	9.43	0.21	11.98	0.23	14.35	0.26	16.45
90.00	0.13	7.08	0.16	9.74	0.20	12.31	0.23	14.60	0.25	16.59

Volts	w/5 Modules		w/6 Modules		w/7 Modules		w/8 Modules	
	Current	Watts	Current	Watts	Current	Watts	Current	Watts
35.00	0.67	19.78	0.80	22.58	0.87	25.73	0.97	28.81
40.00	0.58	19.29	0.71	22.39	0.75	25.12	0.84	27.96
45.00	0.50	18.80	0.62	22.20	0.64	24.52	0.71	27.11
50.00	0.46	18.71	0.57	22.02	0.58	24.18	0.65	26.84
55.00	0.42	18.63	0.52	21.84	0.53	23.84	0.59	26.57
60.00	0.39	18.71	0.48	21.68	0.50	23.86	0.55	26.81
65.00	0.37	18.80	0.45	21.53	0.47	23.89	0.51	27.05
70.00	0.36	19.01	0.44	21.70	0.45	24.10	0.49	27.02
75.00	0.35	19.22	0.43	21.88	0.43	24.31	0.47	26.99
80.00	0.33	19.46	0.41	22.09	0.41	24.53	0.45	27.21
85.00	0.31	19.70	0.39	22.30	0.39	24.76	0.44	27.43
90.00	0.30	19.95	0.37	22.51	0.38	24.99	0.43	27.66

* Measurements are adjusted to compensate for changes over temperature.

Ordering Information

Housings

Model	Stock No.	Description
SMI-H4BP2-75	565378	SMI 4 Port Housing Bottom, Power Passing Passes 750 MHz, Jams 550 MHz, 108.2 MHz Data Carrier Freq
SMI-H4PN2-75	565339	SMI 4 Port Pedestal Mounted Housing, No Power Passing Passes 750 MHz, Jams 550 MHz, 108.2 MHz Data Carrier Freq
SMI-H4PP2-75	564783	SMI 4 Port Pedestal Mounted Housing, Power Passing Passes 750 MHz, Jams 550 MHz, 108.2 MHz Data Carrier Freq
SMI-H4PTO-70	565371	SMI 4 Port Pedestal Mounted Housing Top w/Empty Bottom Passes 750 MHz
SMI-H4PTU-70	565361	SMI 4 Port Pedestal Mounted Top for Upgrading Passes 750 MHz
SMI-H4SN2-75	565340	SMI 4 Port Strand Mounted Housing, No Power Passing Passes 750 MHz, Jams 550 MHz, 108.2 MHz Data Carrier Freq
SMI-H4SP2-75	564785	SMI 4 Port Strand Mounted Housing, Power Passing Passes 750 MHz, Jams 550 MHz, 108.2 MHz Data Carrier Freq
SMI-H4STO-70	565372	SMI 4 Port Strand Mounted Housing Top w/ Empty Bottom Passes 750 MHz
SMI-H4STU-70	565362	SMI 4 Port Strand Mounted Top for Upgrading Passes 750 MHz
SMI-H8BP2-75	565379	SMI 8 Port Housing Bottom, Power Passing Passes 750 MHz, Jams 550 MHz, 108.2 MHz Data Carrier Freq
SMI-H8PN2-75	565337	SMI 8 Port Pedestal Mounted Housing, No Power Passing Passes 750 MHz, Jams 550 MHz, 108.2 MHz Data Carrier Freq
SMI-H8PP2-75	564769	SMI 8 Port Pedestal Mounted Housing, Power Passing Passes 750 MHz, Jams 550 MHz, 108.2 MHz Data Carrier Freq
SMI-H8PTO-70	565373	SMI 8 Port Pedestal Mounted Housing Top w/ Empty Bottom Passes 750 MHz
SMI-H8PTU-70	565363	SMI 8 Port Pedestal Mounted Top for Upgrading Passes 750 MHz
SMI-H8SN2-75	565338	SMI 8 Port Strand Mounted Housing, No Power Passing Passes 750 MHz, Jams 550 MHz, 108.2 MHz Data Carrier Freq
SMI-H8SP2-75	564771	SMI 8 Port Strand Mounted Housing, Power Passing Passes 750 MHz, Jams 550 MHz, 108.2 MHz Data Carrier Freq
SMI-H8STO-70	565374	SMI 8 Port Strand Mounted Housing Top w/ Empty Bottom Passes 750 MHz
SMI-H8STU-70	565364	SMI 8 Port Strand Mounted Top for Upgrading Passes 750 MHz

Subscriber Module

Model	Stock No.	Description
SMI-SM4OP-75	564265	Subscriber Module 750P/550J, 5-40 MHz Reverse, Opt. Power Pass

Accessories

Equalizer - See Accessories Page

SMI-CEQX-XX

SMI-IEQX-XX

Directional Coupler- See Accessories Page

SMI-DCX-XX

