

Fixed Attenuators

Product description

HUBER+SUHNER Attenuators are used in a wide variety of RF and microwave applications and excellently meet the requirements of:

- Design and Engineering
- Test and Measurement
- Build-in items for systems

Fixed attenuators are mainly used to reduce the power level of RF signals by a certain amount. The output signal is reduced with respect to the input.



Features and benefits

- Broadband operationability
- Wide choice of attenuation values
- Low and medium power types
- All connectors meet the relevant IEC / MIL / CECC interface standards
- High repeatability
- Custom designs available on request

Standard attenuators, series 66/68, low power, 50 Ω and 75 Ω

Connector series	Frequency range DC to (GHz)	nom. attenuation (dB)	VSWR max.	Power rating (W)	HUBER+SUHNER type	Article number	
SMA (m/f)	3.0	1	1.10	2	6601.19.AC	22645086	
SMA (m/f)	3.0	2	1.10	2	6602.19.AC	22645087	
SMA (m/f)	3.0	3	1.10	2	6603.19.AC	22645088	
SMA (m/f)	3.0	4	1.10	2	6604.19.AC	22645089	
SMA (m/f)	3.0	5	1.10	2	6605.19.AC	22645090	
SMA (m/f)	3.0	6	1.10	2	6606.19.AC	22645091	
SMA (m/f)	3.0	7	1.10	2	6607.19.AC	22645092	
SMA (m/f)	3.0	8	1.10	2	6608.19.AC	22645093	
SMA (m/f)	3.0	9	1.10	2	6609.19.AC	22645094	
SMA (m/f)	3.0	10	1.10	2	6610.19.AC	22645095	
SMA (m/f)	3.0	15	1.10	2	6615.19.AC	23040465	
SMA (m/f)	3.0	20	1.10	2	6620.19.AC	22645096	
SMA (m/f)	3.0	30	1.10	2	6630.19.AC	22645097	
SMA (m/f)	12.4	1	1.26	2	6601.19.AB	22643968	
SMA (m/f)	12.4	2	1.26	2	6602.19.AB	22643970	
SMA (m/f)	12.4	3	1.26	2	6603.19.AB	22643201	
SMA (m/f)	12.4	4	1.26	2	6604.19.AB	22643972	
SMA (m/f)	12.4	5	1.26	2	6605.19.AB	22643974	
SMA (m/f)	12.4	6	1.26	2	6606.19.AB	22643203	
SMA (m/f)	12.4	7	1.26	2	6607.19.AB	22643976	

Detailed specification sheets for each item are available on request.

Standard attenuators, series 66/86, low power, 50 Ω and 75 Ω

cont.

Connector series	Frequency range DC to (GHz)	nom. attenuation (dB)	VSWR max.	Power rating (W)	HUBER+SUHNER type	Article number	
SMA (m/f)	12.4	8	1.26	2	6608.19.AB	22643978	
SMA (m/f)	12.4	9	1.26	2	6609.19.AB	22643980	
SMA (m/f)	12.4	10	1.26	2	6610.19.AB	22643205	
SMA (m/f)	12.4	15	1.26	2	6615.19.AB	23040463	
SMA (m/f)	12.4	20	1.26	2	6620.19.AB	22643207	
SMA (m/f)	12.4	30	1.26	2	6630.19.AB	22643209	
BNC (m/f)	4.0	1	1.20	2	6801.01.A	22641542	
BNC (m/f)	4.0	2	1.20	2	6802.01.A	22641543	
BNC (m/f)	4.0	3	1.20	2	6803.01.A	22550177	
BNC (m/f)	4.0	4	1.20	2	6804.01.A	22641544	
BNC (m/f)	4.0	6	1.20	2	6806.01.A	22550178	
BNC (m/f)	4.0	7	1.20	2	6807.01.A	22641546	
BNC (m/f)	4.0	10	1.20	1	6810.01.A	22550179	
BNC (m/f)	4.0	20	1.20	1	6820.01.A	22550180	
BNC (m/f)	4.0	30	1.20	1	6830.01.A	22550181	
TNC (m/f)	4.0	5	1.20	2	6805.26.AC	23011475	
TNC (m/f)	4.0	6	1.20	2	6806.26.AC	23004296	
TNC (m/f)	4.0	9	1.20	2	6809.26.AC	23011476	
TNC (m/f)	12.4	3	1.40	2	6803.26.A	22543746	
TNC (m/f)	12.4	6	1.40	2	6806.26.A	22550194	
TNC (m/f)	12.4	10	1.40	1	6810.26.A	22550195	
TNC (m/f)	12.4	20	1.40	1	6820.26.A	22550196	
TNC (m/f)	12.4	30	1.40	1	6830.26.A	22550197	
N (m/f)	4.0	1	1.10	2	6801.17.AC	23000123	
N (m/f)	4.0	2	1.10	2	6802.17.AC	23000122	
N (m/f)	4.0	3	1.10	2	6803.17.AC	23000121	
N (m/f)	4.0	4	1.10	2	6804.17.AC	23002153	
N (m/f)	4.0	5	1.10	2	6805.17.AC	23002154	
N (m/f)	4.0	6	1.10	2	6806.17.AC	23000120	
N (m/f)	4.0	7	1.10	2	6807.17.AC	23002155	
N (m/f)	4.0	8	1.10	2	6808.17.AC	23002156	
N (m/f)	4.0	9	1.10	2	6809.17.AC	23002157	
N (m/f)	4.0	10	1.10	2	6810.17.AC	23000119	
N (m/f)	4.0	20	1.10	2	6820.17.AC	23000908	
N (m/f)	4.0	30	1.10	1	6830.17.AC	23003966	
N (m/f)	12.4	1	1.25	2	6801.17.A	22641535	
N (m/f)	12.4	2	1.25	2	6802.17.A	22641536	
N (m/f)	12.4	3	1.25	2	6803.17.A	22550182	
N (m/f)	12.4	4	1.25	2	6804.17.A	22641537	
N (m/f)	12.4	5	1.25	2	6805.17.A	22641538	
N (m/f)	12.4	6	1.25	2	6806.17.A	22550183	
N (m/f)	12.4	7	1.25	2	6807.17.A	22641539	
N (m/f)	12.4	8	1.25	2	6808.17.A	22641540	
N (m/f)	12.4	9	1.25	2	6809.17.A	22641541	
N (m/f)	12.4	10	1.25	1	6810.17.A	22550185	
N (m/f)	12.4	20	1.25	1	6820.17.A	22550186	
N (m/f)	12.4	30	1.25	1	6830.17.A	22550187	

Detailed specification sheets for each item are available on request.

Standard attenuators, series 69, low power, 50 Ω and 75 Ω

cont.

Connector series	Frequency range DC to (GHz)	Nom. attenuation (dB)	VSWR max.	Power rating (W)	HUBER+SUHNER type	Article number	
BNC (m/f)	1.0	3	1.10	1.0	6903.01.A	22550053	
BNC (m/f)	1.0	6	1.10	1.0	6906.01.A	22550067	
BNC (m/f)	1.0	10	1.10	0.5	6910.01.A	22550068	
75 Ω types							
N 75 Ω (m/f)	1.0	3	1.15	1.0	6903.18.A	22550218	
N 75 Ω (m/f)	1.0	6	1.15	1.0	6906.18.A	22550219	
N 75 Ω (m/f)	1.0	10	1.15	0.8	6910.18.A	22550220	
N 75 Ω (m/f)	1.0	20	1.15	0.5	6920.18.A	22550221	
N 75 Ω (m/f)	0.7	30	1.20	0.5	6930.18.A	22550222	
BNC 75 Ω (m/f)	1.0	3	1.15	1.0	6903.02.A	22550074	
BNC 75 Ω (m/f)	1.0	6	1.15	1.0	6906.02.A	22550088	
BNC 75 Ω (m/f)	1.0	10	1.15	0.5	6910.02.A	22550124	
BNC 75 Ω (m/f)	1.0	20	1.20	0.5	6920.02.A	22550138	
BNC 75 Ω (m/f)	0.7	30	1.20	0.5	6930.02.A	22550159	

Standard attenuators, series 59, medium power, 50 Ω

10 Watt

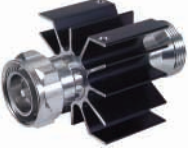
Connector series	Frequency range DC to (GHz)	Nom. attenuation (dB)	VSWR max.	Power rating (W) ^z	HUBER+SUHNER type	Article number	
SMA (m/f)	6	3	1.25	10	5903.19.0001	22659280	
SMA (m/f)	6	6	1.35	10	5906.19.0002	22651220	
SMA (m/f)	3	10	1.25	10	5910.19.0001	22651214	
N (m/f)	6	3	1.25	10	5903.17.0003	22648036	
N (m/f)	6	6	1.35	10	5906.17.0003	22648039	
N (m/f)	3	10	1.25	10	5910.17.0005	22649255	
7/16 (m/f)	6	3	1.25	10	5903.41.0001	22652689	
7/16 (m/f)	6	6	1.35	10	5906.41.0001	22652690	
7/16 (m/f)	3	10	1.25	10	5910.41.0001	22652691	

^z = convection cooled

Detailed specification sheets for each item are available on request.

Standard attenuators, series 59, medium power, 50 Ω

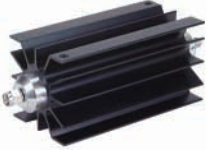
25 Watt

Connector series	Frequency range DC to (GHz)	Nom. attenuation (dB)	VSWR max.	Power rating (W) ^z	HUBER+SUHNER type	Article number	
SMA (m/f)	6	3	1.25	25	5903.19.0002	22659518	
SMA (m/f)	6	6	1.35	25	5906.19.0003	22659520	
SMA (m/f)	3	10	1.25	25	5910.19.0002	22659429	
N (m/f)	6	3	1.25	25	5903.17.0004	22648037	
N (m/f)	6	6	1.35	25	5906.17.0004	22648040	
N (m/f)	3	10	1.25	25	5910.17.0006	22651229	
7/16 (m/f)	6	3	1.25	25	5903.41.0002	22651234	
7/16 (m/f)	6	6	1.35	25	5906.41.0002	22651235	
7/16 (m/f)	3	10	1.25	25	5910.41.0002	22651236	

^z = convection cooled

Standard attenuators, series 59, medium power, 50 Ω

50 Watt

Connector series	Frequency range DC to (GHz)	Nom. attenuation (dB)	VSWR max.	Power rating (W) ^z	HUBER+SUHNER type	Article number	
SMA (m/f)	6	3	1.25	50	5903.19.0003	22659519	
SMA (m/f)	6	6	1.35	50	5906.19.0004	22659521	
SMA (m/f)	3	10	1.25	50	5910.19.0003	22659522	
N (m/f)	6	3	1.25	50	5903.17.0005	22648038	
N (m/f)	6	6	1.35	50	5906.17.0005	22648041	
N (m/f)	3	10	1.25	50	5910.17.0004	22649254	
7/16 (m/f)	6	3	1.25	50	5903.41.0003	22651243	
7/16 (m/f)	6	6	1.35	50	5906.41.0003	22650373	
7/16 (m/f)	3	10	1.25	50	5910.41.0003	22650408	

^z = convection cooled

Detailed specification sheets for each item are available on request.

Precision attenuators, series 66/68, low power, 50 Ω

Connector series	Frequency range DC to (GHz)	nom. attenuation (dB)	VSWR max.	Power rating (W)	HUBER+SUHNER type	Article number	
SMA (m/f)	18	1	1.35	2	6801.19.A	22641550	
SMA (m/f)	18	2	1.35	2	6802.19.A	22641555	
SMA (m/f)	18	3	1.35	2	6803.19.A	22550028	
SMA (m/f)	18	4	1.35	1	6804.19.A	22641554	
SMA (m/f)	18	5	1.35	1	6805.19.A	22641553	
SMA (m/f)	18	6	1.35	1	6806.19.A	22550030	
SMA (m/f)	18	7	1.35	1	6807.19.A	22641552	
SMA (m/f)	18	8	1.35	1	6808.19.A	22641551	
SMA (m/f)	18	9	1.35	1	6809.19.A	22641566	
SMA (m/f)	18	10	1.35	1	6810.19.A	22550031	
SMA (m/f)	18	20	1.35	1	6820.19.A	22550042	
SMA (m/f)	18	30	1.35	1	6830.19.A	22550052	
SMA (m/f)	18	1	1.35	2	6601.19.AA	22643967	
SMA (m/f)	18	2	1.35	2	6602.19.AA	22643969	
SMA (m/f)	18	3	1.35	2	6603.19.AA	22643200	
SMA (m/f)	18	4	1.35	2	6604.19.AA	22643971	
SMA (m/f)	18	5	1.35	2	6605.19.AA	22643973	
SMA (m/f)	18	6	1.35	2	6606.19.AA	22643202	
SMA (m/f)	18	7	1.35	2	6607.19.AA	22643975	
SMA (m/f)	18	8	1.35	2	6608.19.AA	23003623	
SMA (m/f)	18	9	1.35	2	6609.19.AA	22643979	
SMA (m/f)	18	10	1.35	2	6610.19.AA	22643204	
SMA (m/f)	18	15	1.35	2	6615.19.AA	23040166	
SMA (m/f)	18	20	1.35	2	6620.19.AA	22643206	
SMA (m/f)	18	30	1.35	2	6630.19.AA	22643208	
N (m/f)	18	3	1.25	2	6803.17.B	22550188	
N (m/f)	18	6	1.25	2	6806.17.B	22550189	
N (m/f)	18	10	1.25	1	6810.17.B	22550190	
N (m/f)	18	20	1.25	1	6820.17.B	22550191	
N (m/f)	18	30	1.25	1	6830.17.B	22550192	
PC7	18	3	1.20	2	6803.28.A	22550198	
PC7	18	6	1.20	2	6806.28.A	22550199	
PC7	18	10	1.20	1	6810.28.A	22550023	
PC7	18	20	1.20	1	6820.28.A	22550025	
PC7	18	30	1.20	1	6830.28.A	22550027	

Detailed specification sheets for each item are available on request.