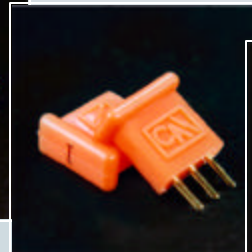
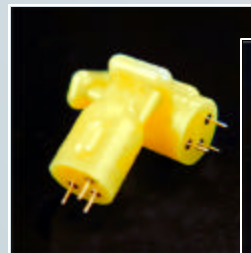
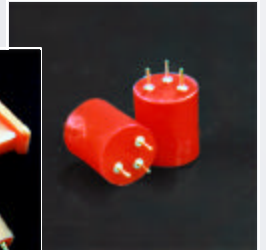
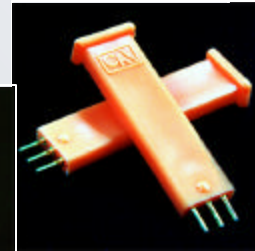
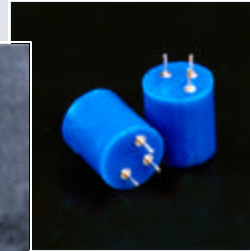
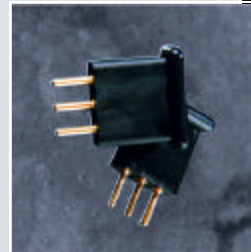
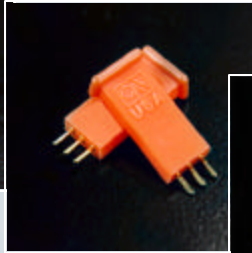
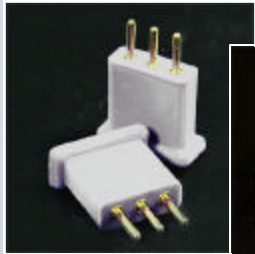


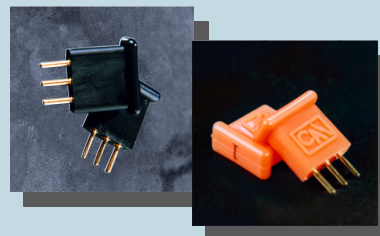
Attenuators



One Solution.



JXP



1.2 GHz Attenuators

JXP short black Part #	JXP short orange Part #	dB value	Insertion Loss			Return Loss		
			S21 at 5 MHz	S21 at Fu	Typical delta 5-1200 MHz	S11 5-750	S11 5-1000	S11 5-1200
CA008500	CA007500	0.00	+/-0.15	+/-0.15	0.00	32.0	32.0	32.0
Note 11	Note 11	0.25	+/-0.15	+/-0.25	-0.10	30.0	30.0	30.0
CA008300	CA008700	0.50	+/-0.15	+/-0.25	-0.10	30.0	30.0	30.0
Note 11	Note 11	0.75	+/-0.15	+/-0.25	-0.20	30.0	30.0	30.0
CA008501	CA007501	1.00	+/-0.15	+/-0.25	-0.20	32.0	32.0	30.0
Note 11	Note 11	1.25	+/-0.15	+/-0.25	-0.20	31.0	31.0	29.0
CA008301	CA008701	1.50	+/-0.15	+/-0.25	-0.20	31.0	31.0	29.0
Note 11	Note 11	1.75	+/-0.15	+/-0.25	-0.20	31.0	31.0	29.0
CA008502	CA007502	2.00	+/-0.15	+/-0.25	-0.18	32.0	32.0	30.0
Note 11	Note 11	2.25	+/-0.15	+/-0.25	-0.18	31.0	31.0	29.0
CA008302	CA008702	2.50	+/-0.15	+/-0.25	-0.18	31.0	31.0	29.0
Note 11	Note 11	2.75	+/-0.15	+/-0.25	-0.18	31.0	31.0	29.0
CA008503	CA007503	3.00	+/-0.15	+/-0.25	-0.17	32.0	30.0	29.0
Note 11	Note 11	3.25	+/-0.15	+/-0.25	-0.18	31.0	29.0	28.0
CA008303	CA008703	3.50	+/-0.15	+/-0.25	-0.20	31.0	29.0	28.0
Note 11	Note 11	3.75	+/-0.15	+/-0.25	-0.23	31.0	29.0	28.0
CA008504	CA007504	4.00	+/-0.15	+/-0.25	-0.23	32.0	30.0	30.0
Note 11	Note 11	4.25	+/-0.15	+/-0.25	-0.23	31.0	29.0	28.0
CA008304	CA008704	4.50	+/-0.15	+/-0.25	-0.24	31.0	29.0	28.0
Note 11	Note 11	4.75	+/-0.15	+/-0.25	-0.24	31.0	29.0	28.0
CA008505	CA007505	5.00	+/-0.15	+/-0.25	-0.24	32.0	29.0	27.0
Note 11	Note 11	5.25	+/-0.15	+/-0.25	-0.24	31.0	28.0	26.0
CA008305	CA008705	5.50	+/-0.15	+/-0.25	-0.25	31.0	28.0	26.0
Note 11	Note 11	5.75	+/-0.15	+/-0.25	-0.25	31.0	28.0	26.0
CA008506	CA007506	6.00	+/-0.15	+/-0.25	-0.25	28.0	26.0	24.0
Note 11	Note 11	6.25	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
CA008306	CA008706	6.50	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
Note 11	Note 11	6.75	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
CA008507	CA007507	7.00	+/-0.15	+/-0.25	-0.25	28.0	26.0	24.0
Note 11	Note 11	7.25	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
CA008307	CA008707	7.50	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
Note 11	Note 11	7.75	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
CA008508	CA007508	8.00	+/-0.15	+/-0.25	-0.25	28.0	25.0	23.0
Note 11	Note 11	8.25	+/-0.15	+/-0.25	-0.25	27.0	24.0	22.0
CA008308	CA008708	8.50	+/-0.15	+/-0.25	-0.25	27.0	24.0	22.0
Note 11	Note 11	8.75	+/-0.15	+/-0.25	-0.25	27.0	24.0	22.0
CA008509	CA007509	9.00	+/-0.15	+/-0.25	-0.25	27.0	24.0	22.0
Note 11	Note 11	9.25	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
CA008309	CA008709	9.50	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
Note 11	Note 11	9.75	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
CA008510	CA007510	10.00	+/-0.15	+/-0.25	-0.25	27.0	24.0	22.0
Note 11	Note 11	10.25	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
CA008310	CA008710	10.50	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
Note 11	Note 11	10.75	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0

JXP short black Part #	JXP short orange Part #	dB value	Insertion Loss			Return Loss		
			S21 at 5 MHz	S21 at Fu	Typical delta 5-1200 MHz	S11 5-750	S11 5-1000	S11 5-1200
CA008511	CA007511	11.00	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
Note 11	Note 11	11.25	+/-0.15	+/-0.25	-0.23	25.0	22.0	20.0
CA008311	CA008711	11.50	+/-0.15	+/-0.25	-0.23	25.0	22.0	20.0
Note 11	Note 11	11.75	+/-0.15	+/-0.25	-0.23	25.0	22.0	20.0
CA008512	CA007512	12.00	+/-0.15	+/-0.25	-0.22	26.0	24.0	22.0
Note 11	Note 11	12.25	+/-0.15	+/-0.25	-0.22	25.0	22.0	20.0
CA008312	CA008712	12.50	+/-0.15	+/-0.25	-0.22	25.0	22.0	20.0
Note 11	Note 11	12.75	+/-0.15	+/-0.25	-0.18	25.0	22.0	20.0
CA008513	CA007513	13.00	+/-0.15	+/-0.25	-0.17	26.0	24.0	22.0
Note 11	Note 11	13.25	+/-0.15	+/-0.25	-0.17	25.0	22.0	20.0
CA008313	CA008713	13.50	+/-0.15	+/-0.25	-0.15	25.0	22.0	20.0
Note 11	Note 11	13.75	+/-0.15	+/-0.25	-0.14	25.0	22.0	20.0
CA008514	CA007514	14.00	+/-0.15	+/-0.25	-0.10	26.0	24.0	22.0
Note 11	Note 11	14.25	+/-0.15	+/-0.25	-0.10	25.0	22.0	20.0
CA008314	CA008714	14.50	+/-0.15	+/-0.25	-0.05	25.0	22.0	20.0
Note 11	Note 11	14.75	+/-0.15	+/-0.25	-0.00	25.0	22.0	20.0
CA008515	CA007515	15.00	+/-0.15	+/-0.25	-0.02	26.0	24.0	22.0
Note 11	Note 11	15.25	+/-0.15	+/-0.25	-0.04	25.0	22.0	20.0
CA008315	CA008715	15.50	+/-0.15	+/-0.25	+0.20	25.0	22.0	20.0
Note 11	Note 11	15.75	+/-0.15	+/-0.25	+0.17	25.0	22.0	20.0
CA008516	CA007516	16.00	+/-0.15	+/-0.25	+0.13	26.0	25.0	24.0
Note 11	Note 11	16.25	+/-0.15	+/-0.25	+0.30	25.0	24.0	23.0
CA008316	CA008716	16.50	+/-0.15	+/-0.25	+0.32	25.0	24.0	23.0
Note 11	Note 11	16.75	+/-0.15	+/-0.25	-0.30	25.0	24.0	23.0
CA008517	CA007517	17.00	+/-0.15	+/-0.25	-0.30	25.0	24.0	23.0
Note 11	Note 11	17.25	+/-0.15	+/-0.25	-0.30	25.0	24.0	23.0
CA008317	CA008717	17.50	+/-0.15	+/-0.25	-0.30	26.0	25.0	24.0
Note 11	Note 11	17.75	+/-0.15	+/-0.25	-0.30	26.0	25.0	24.0
CA008518	CA007518	18.00	+/-0.15	+/-0.25	-0.25	28.0	27.0	26.0
Note 11	Note 11	18.25	+/-0.15	+/-0.25	-0.25	27.0	25.0	24.0
CA008318	CA008718	18.50	+/-0.15	+/-0.25	-0.20	27.0	25.0	24.0
Note 11	Note 11	18.75	+/-0.15	+/-0.25	-0.15	27.0	25.0	24.0
CA008519	CA007519	19.00	+/-0.15	+/-0.25	-0.10	27.0	26.0	25.0
Note 11	Note 11	19.25	+/-0.15	+/-0.25	-0.10	26.0	25.0	24.0
CA008319	CA008719	19.50	+/-0.15	+/-0.25	-0.07	26.0	25.0	24.0
Note 11	Note 11	19.75	+/-0.15	+/-0.30	-0.00	25.0	24.0	23.0
CA008520	CA007520	20.00	+/-0.15	+/-0.30	-0.10	25.0	24.0	23.0
Note 11	Note 11	20.25	+/-0.15	+/-0.30	-0.05	25.0	24.0	23.0
CA008320	CA008720	20.50	+/-0.15	+/-0.30	-0.00	24.0	23.0	22.0
Note 11	Note 11	20.75	+/-0.15	+/-0.25	-0.10	27.0	25.0	24.0
CA008521	CA010521	21.00	+/-0.15	+/-0.25	-0.05	30.0	29.0	28.0
Note 11	Note 11	21.25	+/-0.15	+/-0.25	+0.05	27.0	25.0	24.0
CA008321	CA008721	21.50	+/-0.15	+/-0.25	+0.15	27.0	25.0	24.0
Note 11	Note 11	21.75	+/-0.15	+/-0.25	-0.05	27.0	25.0	24.0

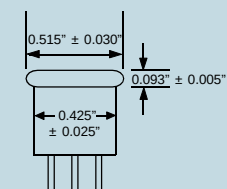
JXP short black	JXP short orange		Insertion Loss			Return Loss		
Part #	Part #	dB value	S21 at 5 MHz	S21 at Fu	Typical delta 5-1200 MHz	S11 5-750	S11 5-1000	S11 5-1200
CA008522	CA010522	22.00	+/-0.15	+/-0.25	-0.20	30.0	29.0	28.0
Note 11	Note 11	22.25	+/-0.15	+/-0.25	-0.10	27.0	25.0	24.0
CA008322	CA008722	22.50	+/-0.15	+/-0.25	-0.10	27.0	25.0	24.0
Note 11	Note 11	22.75	+/-0.15	+/-0.30	-0.10	27.0	25.0	24.0
CA008523	CA010523	23.00	+/-0.15	+/-0.30	+0.05	30.0	29.0	28.0
Note 11	Note 11	23.25	+/-0.15	+/-0.30	-0.00	27.0	25.0	24.0
CA008323	CA008723	23.50	+/-0.15	+/-0.30	-0.10	27.0	25.0	24.0
Note 11	Note 11	23.75	+/-0.15	+/-0.30	-0.10	27.0	25.0	24.0
CA008524	CA010524	24.00	+/-0.15	+/-0.30	-0.05	30.0	29.0	28.0
Note 11	Note 11	24.25	+/-0.15	+/-0.30	-0.20	27.0	25.0	24.0
CA008324	CA008724	24.50	+/-0.15	+/-0.30	+0.20	27.0	25.0	24.0
Note 11	Note 11	24.75	+/-0.15	+/-0.30	+0.20	27.0	25.0	24.0
CA008525	CA010525	25.00	+/-0.15	+/-0.65	+0.46	30.0	29.0	28.0
Note 11	Note 11	25.25	+/-0.15	+/-0.65	+0.50	27.0	25.0	24.0
CA008325	CA008725	25.50	+/-0.15	+/-0.75	+0.20	27.0	25.0	24.0
Note 11	Note 11	25.75	+/-0.15	+/-1.00	+0.60	27.0	25.0	24.0
CA008526	CA010526	26.00	+/-0.15	+/-1.00	+0.90	29.0	28.0	27.0
CA008575	CA007575	75	TERMINATOR			29.0	28.0	27.0

Note:

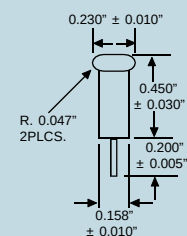
- 1 Insertion loss (S21) measurements are relative to 0dB unit in test fixture.
- 2 Return Loss (S11) shown is Typical. Minimum @ 1200 MHz is:
1 to 5dB, 25dB; 6 to 10dB, 24dB; 11 to 14dB, 23dB; and 15 to 26dB, 20dB.
Contact Communication Associates for calibration and details.
- 3 Usable frequency range is DC up to specified frequency.
- 4 Usable temperature range is -40°F to 176°F (-40°C to +80°C).
- 5 Power dissipation is 0.125 Watt up to 176°F (+80°C).
- 6 Characteristic impedance is 75 Ohms unless otherwise noted.
Communication Associates offers 50 Ohm Zo (characteristic impedance) and is capable of others upon request.
- 7 Typical delta indicates difference between insertion loss at upper frequency and lower frequency.
- 8 Specific signature data is available upon request.
- 9 Body material is polypropylene. Electrical contact pins are gold plated brass.
- 10 Center pin is ground. Outside pins are RF in/out (Bidirectional).
- 11 X.25 and X.75 steps available upon request. Contact Communication Associates for details.
- 12 Black color denotes 750 MHz rating, orange color denotes 1200 MHz.
- 13 Specifications subject to change / improvement without notice.

Mechanical Dimensions

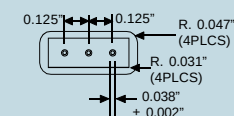
FRONT/BACK
VIEW



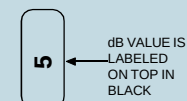
SIDE VIEW



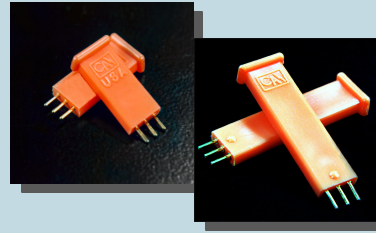
BOTTOM VIEW



TOP VIEW



JXP



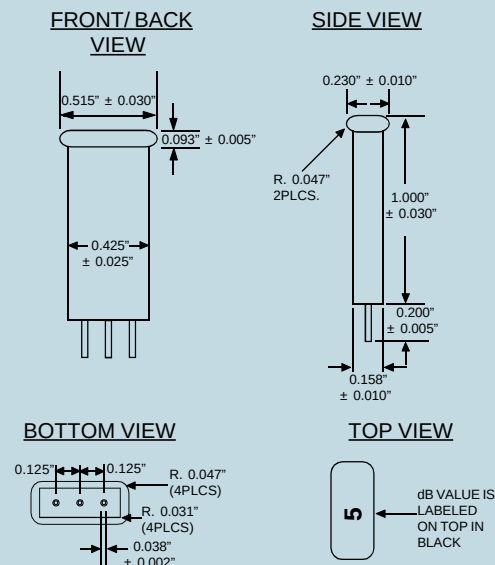
1.2 GHz Attenuators

JXP tall nolock (has logo)	JXP tall w/ lock (no logo)	JXP extra tall	Insertion Loss				Return Loss		
			dB value	S21 at 5 MHz	S21 at Fu	Typical delta 5-1200 MHz	S11 5-750	S11 5-1000	S11 5-1200
Part #	Part #	Part #							
CA008900	CA007600	CA014000	0.00	+/-0.15	+/-0.15	0.00	32.0	32.0	32.0
Note 11	Note 11	Note 11	0.25	+/-0.15	+/-0.25	-0.10	30.0	30.0	30.0
CA009300	CA008400	CA014500	0.50	+/-0.15	+/-0.25	-0.10	30.0	30.0	30.0
Note 11	Note 11	Note 11	0.75	+/-0.15	+/-0.25	-0.20	30.0	30.0	30.0
CA008901	CA007601	CA014001	1.00	+/-0.15	+/-0.25	-0.20	32.0	32.0	30.0
Note 11	Note 11	Note 11	1.25	+/-0.15	+/-0.25	-0.20	31.0	31.0	29.0
CA009301	CA008401	CA014501	1.50	+/-0.15	+/-0.25	-0.20	31.0	31.0	29.0
Note 11	Note 11	Note 11	1.75	+/-0.15	+/-0.25	-0.20	31.0	31.0	29.0
CA008902	CA007602	CA014002	2.00	+/-0.15	+/-0.25	-0.18	32.0	32.0	30.0
Note 11	Note 11	Note 11	2.25	+/-0.15	+/-0.25	-0.18	31.0	31.0	29.0
CA009302	CA008402	CA014502	2.50	+/-0.15	+/-0.25	-0.18	31.0	31.0	29.0
Note 11	Note 11	Note 11	2.75	+/-0.15	+/-0.25	-0.18	31.0	31.0	29.0
CA008903	CA007603	CA014003	3.00	+/-0.15	+/-0.25	-0.17	32.0	30.0	29.0
Note 11	Note 11	Note 11	3.25	+/-0.15	+/-0.25	-0.18	31.0	29.0	28.0
CA009303	CA008403	CA014503	3.50	+/-0.15	+/-0.25	-0.20	31.0	29.0	28.0
Note 11	Note 11	Note 11	3.75	+/-0.15	+/-0.25	-0.23	31.0	29.0	28.0
CA008904	CA007604	CA014004	4.00	+/-0.15	+/-0.25	-0.23	32.0	30.0	30.0
Note 11	Note 11	Note 11	4.25	+/-0.15	+/-0.25	-0.23	31.0	29.0	28.0
CA009304	CA008404	CA014504	4.50	+/-0.15	+/-0.25	-0.24	31.0	29.0	28.0
Note 11	Note 11	Note 11	4.75	+/-0.15	+/-0.25	-0.24	31.0	29.0	28.0
CA008905	CA007605	CA014005	5.00	+/-0.15	+/-0.25	-0.24	32.0	29.0	27.0
Note 11	Note 11	Note 11	5.25	+/-0.15	+/-0.25	-0.24	31.0	28.0	26.0
CA009305	CA008405	CA014505	5.50	+/-0.15	+/-0.25	-0.25	31.0	28.0	26.0
Note 11	Note 11	Note 11	5.75	+/-0.15	+/-0.25	-0.25	31.0	28.0	26.0
CA008906	CA007606	CA014006	6.00	+/-0.15	+/-0.25	-0.25	28.0	26.0	24.0
Note 11	Note 11	Note 11	6.25	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
CA009306	CA008406	CA014506	6.50	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
Note 11	Note 11	Note 11	6.75	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
CA008907	CA007607	CA014007	7.00	+/-0.15	+/-0.25	-0.25	28.0	26.0	24.0
Note 11	Note 11	Note 11	7.25	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
CA009307	CA008407	CA014507	7.50	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
Note 11	Note 11	Note 11	7.75	+/-0.15	+/-0.25	-0.25	27.0	25.0	23.0
CA008908	CA007608	CA014008	8.00	+/-0.15	+/-0.25	-0.25	28.0	25.0	23.0
Note 11	Note 11	Note 11	8.25	+/-0.15	+/-0.25	-0.25	27.0	24.0	22.0
CA009308	CA008408	CA014508	8.50	+/-0.15	+/-0.25	-0.25	27.0	24.0	22.0
Note 11	Note 11	Note 11	8.75	+/-0.15	+/-0.25	-0.25	27.0	24.0	22.0
CA008909	CA007609	CA014009	9.00	+/-0.15	+/-0.25	-0.25	27.0	24.0	22.0
Note 11	Note 11	Note 11	9.25	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
CA009309	CA008409	CA014509	9.50	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
Note 11	Note 11	Note 11	9.75	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
CA008910	CA007610	CA014010	10.00	+/-0.15	+/-0.25	-0.25	27.0	24.0	22.0
Note 11	Note 11	Note 11	10.25	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
CA009310	CA008410	CA014510	10.50	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
Note 11	Note 11	Note 11	10.75	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0

JXP tall nolock (has logo)	JXP tall w/ lock (no logo)	JXP extra tall	dB value	Insertion Loss			Return Loss		
				S21 at 5 MHz	S21 at Fu	Typical delta 5-1200 MHz	S11 5-750	S11 5-1000	S11 5-1200
Part #	Part #	Part #							
CA008911	CA007611	CA014011	11.00	+/-0.15	+/-0.25	-0.25	26.0	23.0	21.0
Note 11	Note 11	Note 11	11.25	+/-0.15	+/-0.25	-0.23	25.0	22.0	20.0
CA009311	CA008411	CA014511	11.50	+/-0.15	+/-0.25	-0.23	25.0	22.0	20.0
Note 11	Note 11	Note 11	11.75	+/-0.15	+/-0.25	-0.23	25.0	22.0	20.0
CA008912	CA007612	CA014012	12.00	+/-0.15	+/-0.25	-0.22	26.0	24.0	22.0
Note 11	Note 11	Note 11	12.25	+/-0.15	+/-0.25	-0.22	25.0	22.0	20.0
CA009312	CA008412	CA014512	12.50	+/-0.15	+/-0.25	-0.22	25.0	22.0	20.0
Note 11	Note 11	Note 11	12.75	+/-0.15	+/-0.25	-0.18	25.0	22.0	20.0
CA008913	CA007613	CA014013	13.00	+/-0.15	+/-0.25	-0.17	26.0	24.0	22.0
Note 11	Note 11	Note 11	13.25	+/-0.15	+/-0.25	-0.17	25.0	22.0	20.0
CA009313	CA008413	CA014513	13.50	+/-0.15	+/-0.25	-0.15	25.0	22.0	20.0
Note 11	Note 11	Note 11	13.75	+/-0.15	+/-0.25	-0.14	25.0	22.0	20.0
CA008914	CA007614	CA014014	14.00	+/-0.15	+/-0.25	-0.10	26.0	24.0	22.0
Note 11	Note 11	Note 11	14.25	+/-0.15	+/-0.25	-0.10	25.0	22.0	20.0
CA009314	CA008414	CA014514	14.50	+/-0.15	+/-0.25	-0.05	25.0	22.0	20.0
Note 11	Note 11	Note 11	14.75	+/-0.15	+/-0.25	-0.00	25.0	22.0	20.0
CA008915	CA007615	CA014015	15.00	+/-0.15	+/-0.25	-0.02	26.0	24.0	22.0
Note 11	Note 11	Note 11	15.25	+/-0.15	+/-0.25	-0.04	25.0	22.0	20.0
CA009315	CA008415	CA014515	15.50	+/-0.15	+/-0.25	+0.20	25.0	22.0	20.0
Note 11	Note 11	Note 11	15.75	+/-0.15	+/-0.25	+0.17	25.0	22.0	20.0
CA008916	CA007616	CA014016	16.00	+/-0.15	+/-0.25	+0.13	26.0	25.0	24.0
Note 11	Note 11	Note 11	16.25	+/-0.15	+/-0.25	+0.30	25.0	24.0	23.0
CA009316	CA008416	CA014516	16.50	+/-0.15	+/-0.25	+0.32	25.0	24.0	23.0
Note 11	Note 11	Note 11	16.75	+/-0.15	+/-0.25	-0.30	25.0	24.0	23.0
CA008917	CA007617	CA014017	17.00	+/-0.15	+/-0.25	-0.30	25.0	24.0	23.0
Note 11	Note 11	Note 11	17.25	+/-0.15	+/-0.25	-0.30	25.0	24.0	23.0
CA009317	CA008417	CA014517	17.50	+/-0.15	+/-0.25	-0.30	26.0	25.0	24.0
Note 11	Note 11	Note 11	17.75	+/-0.15	+/-0.25	-0.30	26.0	25.0	24.0
CA008918	CA007618	CA014018	18.00	+/-0.15	+/-0.25	-0.25	28.0	27.0	26.0
Note 11	Note 11	Note 11	18.25	+/-0.15	+/-0.25	-0.25	27.0	25.0	24.0
CA009318	CA008418	CA014518	18.50	+/-0.15	+/-0.25	-0.20	27.0	25.0	24.0
Note 11	Note 11	Note 11	18.75	+/-0.15	+/-0.25	-0.15	27.0	25.0	24.0
CA008919	CA007619	CA014019	19.00	+/-0.15	+/-0.25	-0.10	27.0	26.0	25.0
Note 11	Note 11	Note 11	19.25	+/-0.15	+/-0.25	-0.10	26.0	25.0	24.0
CA009319	CA008419	CA014519	19.50	+/-0.15	+/-0.25	-0.07	26.0	25.0	24.0
Note 11	Note 11	Note 11	19.75	+/-0.15	+/-0.30	-0.00	25.0	24.0	23.0
CA008920	CA007620	CA014020	20.00	+/-0.15	+/-0.30	-0.10	25.0	24.0	23.0
Note 11	Note 11	Note 11	20.25	+/-0.15	+/-0.30	-0.05	25.0	24.0	23.0
CA009320	CA008420	CA014520	20.50	+/-0.15	+/-0.30	-0.00	24.0	23.0	22.0
Note 11	Note 11	Note 11	20.75	+/-0.15	+/-0.25	-0.10	27.0	25.0	24.0
CA008921	CA007621	CA014021	21.00	+/-0.15	+/-0.25	-0.05	30.0	29.0	28.0
Note 11	Note 11	Note 11	21.25	+/-0.15	+/-0.25	+0.05	27.0	25.0	24.0
CA009321	CA008421	CA014521	21.50	+/-0.15	+/-0.25	+0.15	27.0	25.0	24.0
Note 11	Note 11	Note 11	21.75	+/-0.15	+/-0.25	-0.05	27.0	25.0	24.0

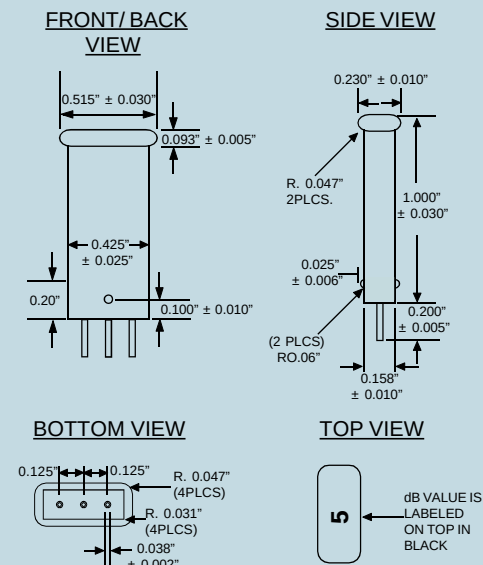
JXP tall nolock (has logo)	JXP tall w/ lock (no logo)	JXP extra tall	Insertion Loss				Return Loss		
			dB value	S21 at 5 MHz	S21 at Fu	Typical delta 5-1200 MHz	S11 5-750	S11 5-1000	S11 5-1200
Part #	Part #	Part #							
CA008922	CA007622	CA014022	22.00	+/-0.15	+/-0.25	-0.20	30.0	29.0	28.0
Note 11	Note 11	Note 11	22.25	+/-0.15	+/-0.25	-0.10	27.0	25.0	24.0
Note 11	Note 11	Note 11	22.50	+/-0.15	+/-0.25	-0.10	27.0	25.0	24.0
Note 11	Note 11	Note 11	22.75	+/-0.15	+/-0.30	-0.10	27.0	25.0	24.0
CA008923	CA017623	CA014023	23.00	+/-0.15	+/-0.30	+0.05	30.0	29.0	28.0
Note 11	Note 11	Note 11	23.25	+/-0.15	+/-0.30	-0.00	27.0	25.0	24.0
Note 11	Note 11	Note 11	23.50	+/-0.15	+/-0.30	-0.10	27.0	25.0	24.0
Note 11	Note 11	Note 11	23.75	+/-0.15	+/-0.30	-0.10	27.0	25.0	24.0
CA008924	CA017624	CA014024	24.00	+/-0.15	+/-0.30	-0.05	30.0	29.0	28.0
Note 11	Note 11	Note 11	24.25	+/-0.15	+/-0.30	-0.20	27.0	25.0	24.0
Note 11	Note 11	Note 11	24.50	+/-0.15	+/-0.30	+0.20	27.0	25.0	24.0
Note 11	Note 11	Note 11	24.75	+/-0.15	+/-0.30	+0.20	27.0	25.0	24.0
CA008925	CA017625	CA014025	25.00	+/-0.15	+/-0.65	+0.46	30.0	29.0	28.0
Note 11	Note 11	Note 11	25.25	+/-0.15	+/-0.65	+0.50	27.0	25.0	24.0
Note 11	Note 11	Note 11	25.50	+/-0.15	+/-0.75	+0.20	27.0	25.0	24.0
Note 11	Note 11	Note 11	25.75	+/-0.15	+/-1.00	+0.60	27.0	25.0	24.0
CA008926	CA017626	CA014026	26.00	+/-0.15	+/-1.00	+0.90	29.0	28.0	27.0
CA008975	CA007676	CA014075	75	TERMINATOR			29.0	28.0	27.0

JXP Tall Attenuator without lock

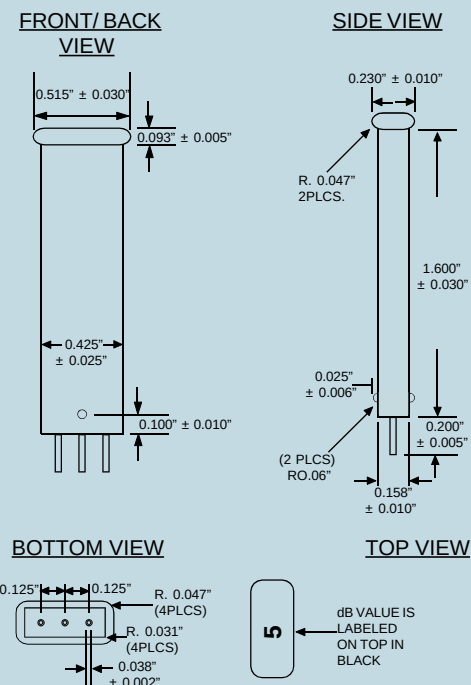


Mechanical Dimensions

JXP Tall Attenuator with lock



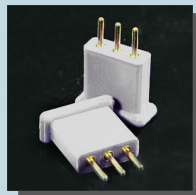
JXP Extra Tall Attenuator with lock



Note:

- 1 Insertion loss (S21) measurements are relative to 0dB unit in test fixture.
- 2 Return Loss (S11) shown is Typical. Minimum @ 1200 MHz is:
1 to 5 dB, 25dB; 6 to 10dB, 24dB; 11 to 14dB, 23dB; and 15 to 26dB, 20dB.
Contact Communication Associates for calibration and details.
- 3 Usable frequency range is DC up to specified frequency.
- 4 Usable temperature range is -40°F to 176°F (-40°C to +80°C).
- 5 Power dissipation is 0.125 Watt up to 176°F (+80°C).
- 6 Characteristic impedance is 75 Ohms unless otherwise noted.
Communication Associates offers 50 Ohm Zo (characteristic impedance) and is capable of others upon request.
- 7 Typical delta indicates difference between insertion loss at upper frequency and lower frequency.
- 8 Specific signature data is available upon request.
- 9 Body material is polypropylene. Electrical contact pins are gold plated brass.
- 10 Center pin is ground. Outside pins are RF in/out (Bidirectional).
- 11 This dB value es available upon request. Contact Communication Associates for details.
- 12 Orange color denotes 1.2 GHz rating.
- 13 Specifications subject to change / improvement without notice.

JXP



- Attenuator that reduces its loss as temperature increases and increases its loss as temperature decreases.
- Commonly used on return band as means of AGC.
- Used on forward band where additional thermal compensation is desired.

TEMPERATURE COMPENSATING ATTENUATORS

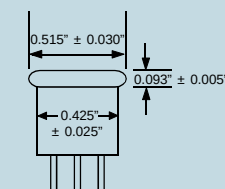
		SPECIFICATIONS 5-200 MHz					PERFORMANCE at 862 MHz				
		Coeff.	Insertion Loss			Rtn Loss	Insertion Loss			Rtn Loss	
CA P/N	Marking	dB/ deg. C	S21 @-20°C	S21 @+45°C	S21 @+80°C	S11	S21 @-20°C	S21 @ +45°C	S21 @ +80°C	S11	Notes
			[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	5,6,7,8,9
CA019301	TH-1B	Note 4	1.17	1.00	0.91	24.0	1.17	1.00	0.91	18.0	1,2,3,4
CA019302	TH-2B	Note 4	2.74	2.00	1.60	24.0	2.74	2.00	1.60	18.0	1,2,3,4
CA019303	TH-3B	0.015	3.98	3.00	2.48	24.0	3.98	3.00	2.48	18.0	1,2,3
CA019304	TH-4B	0.023	5.50	4.00	3.20	24.0	5.50	4.00	3.20	20.0	1,2,3
CA019305	TH-5B	0.023	6.50	5.00	4.20	24.0	6.50	5.00	4.20	20.0	1,2,3
CA019306	TH-6B	0.023	7.50	6.00	5.20	24.0	7.50	6.00	5.20	22.0	1,2,3
CA019307	TH-7B	0.023	8.50	7.00	6.20	24.0	8.50	7.00	6.20	22.0	1,2,3
CA019308	TH-8B	0.023	9.50	8.00	7.20	24.0	9.50	8.00	7.20	22.0	1,2,3
CA019309	TH-9B	0.023	10.50	9.00	8.20	24.0	10.50	9.00	8.20	24.0	1,2,3
CA019310	TH-10B	0.023	11.50	10.00	9.20	24.0	11.50	10.00	9.20	24.0	1,2,3

Note:

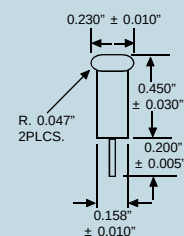
- Return loss (S11) is worst case over temperature range -20°C to 80°C.
- Insertion loss (S21) Specification tolerance at given temperature:
5-200 MHz: ± 0.20 dB $\pm 2^\circ$ C
at 862 MHz: ± 0.30 dB $\pm 2^\circ$ C
- Tilt at +80°C at 862 MHz is -0.20 dB MAX.
- Design constraints do not allow losses at cold and hot temperature to match indicated coefficient for this device.
- Power dissipation 0.125W RMS max.
- Body material is polypropylene. Electrical contact pins are gold plated brass.
- Characteristic impedance for this series is 75 Ohms.
- Center pin is ground, outside pins are RF in/out (Bidirectional).
- Specifications subject to change without notice.

Mechanical Dimensions

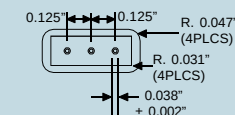
FRONT/ BACK VIEW



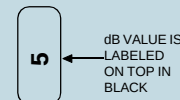
SIDE VIEW



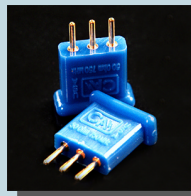
BOTTOM VIEW



TOP VIEW



JXP



50 Ω Attenuators

Mechanical Dimensions

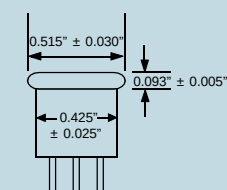
JXP Blue 750 MHz 50W	dB value	Return Loss	Insertion Loss
Part #			
CA011700	0	30 dB	± 0.15 dB
CA011300	0.5	24 dB	± 0.15 dB
CA011701	1	23 dB	± 0.25 dB
CA011301	1.5	19 dB	± 0.25 dB
CA011702	2	20 dB	± 0.25 dB
CA011302	2.5	20 dB	± 0.25 dB
CA011703	3	19 dB	± 0.25 dB
CA011303	3.5	19 dB	± 0.25 dB
CA011704	4	18 dB	± 0.25 dB
CA011304	4.5	18 dB	± 0.25 dB
CA011705	5	17 dB	± 0.25 dB
CA011305	5.5	18 dB	± 0.25 dB
CA011706	6	17 dB	± 0.25 dB
CA011306	6.5	16 dB	± 0.25 dB
CA011707	7	16 dB	± 0.25 dB
CA011307	7.5	17 dB	± 0.25 dB
CA011708	8	16 dB	± 0.25 dB
CA011308	8.5	16 dB	± 0.25 dB
CA011709	9	16 dB	± 0.25 dB
CA011309	9.5	16 dB	± 0.25 dB
CA011710	10	16 dB	± 0.25 dB
CA011310	10.5	15 dB	± 0.25 dB
CA011711	11	15 dB	± 0.25 dB
CA011311	11.5	16 dB	± 0.25 dB
CA011712	12	16 dB	± 0.25 dB
CA011312	12.5	15 dB	± 0.25 dB
CA011713	13	15 dB	± 0.25 dB
CA011313	13.5	14 dB	± 0.25 dB
CA011714	14	15 dB	± 0.25 dB
CA011314	14.5	15 dB	± 0.25 dB

JXP Blue 750 MHz 50W	dB value	Return Loss	Insertion Loss
Part #			
CA011715	15	15 dB	± 0.25 dB
CA011315	15.5	14 dB	± 0.25 dB
CA011716	16	21 dB	± 0.25 dB
CA011316	16.5	21 dB	± 0.25 dB
CA011717	17	21 dB	± 0.25 dB
CA011317	17.5	21 dB	± 0.25 dB
CA011718	18	21 dB	± 0.25 dB
CA011318	18.5	21 dB	± 0.25 dB
CA011719	19	21 dB	± 0.25 dB
CA011319	19.5	21 dB	± 0.25 dB
CA011720	20	21 dB	± 0.25 dB
CA011750	TERM.	22 dB	N/A

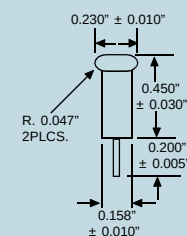
Note:

- 1 Insertion loss (S21) measurements are relative to 0dB unit in test fixture.
- 2 Usable frequency range is DC up to specified frequency.
- 3 Usable temperature range is -40°F to 176°F (-40°C to +80°C).
- 4 Power dissipation is 0.125 Watt up to 176°F (+80°C).
- 5 Characteristic impedance is 50 Ohms.
- 6 Communication Associates offers other characteristic impedances upon request.
- 7 Return loss tested in CA test fixture. Contact Communication Associates for calibration and details.
- 8 Specific signature data is available upon request.
- 9 Body material is polypropylene. Electrical contact pins are gold plated brass.
- 10 Center pin is ground. Outside pins are RF in/out (Bidirectional).
- 11 Specifications subject to change / improvement without notice.

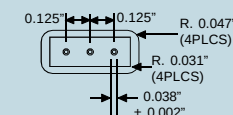
FRONT/ BACK
VIEW



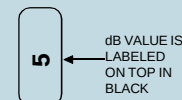
SIDE VIEW



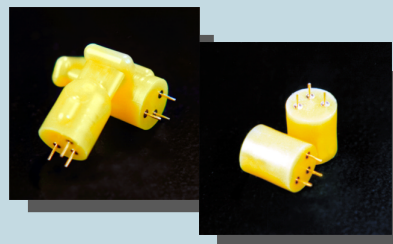
BOTTOM VIEW



TOP VIEW



SXP



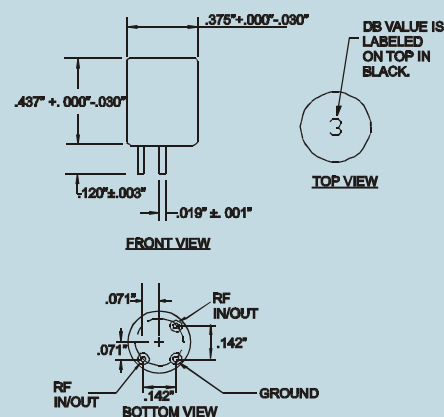
862 Mhz Attenuators

SXP T- Top Part #	SXP Regular Flat- Top Part #	dB value	Return Loss	Tilt	Flatness
CA003200	CA007700	0	16 dB	N / A	±0.15 dB
CA008100	CA007800	0.5	22 dB	0.15 dB	±0.1 dB
CA003201	CA007701	1	22 dB	0.15 dB	±0.1 dB
CA008101	CA007801	1.5	22 dB	0.15 dB	±0.1 dB
CA003202	CA007702	2	22 dB	0.15 dB	±0.1 dB
CA008102	CA007802	2.5	22 dB	0.15 dB	±0.1 dB
CA003203	CA007703	3	22 dB	0.15 dB	±0.1 dB
CA008103	CA007803	3.5	21 dB	0.15 dB	±0.1 dB
CA003204	CA007704	4	21 dB	0.15 dB	±0.1 dB
CA008104	CA007804	4.5	21 dB	0.15 dB	±0.1 dB
CA003205	CA007705	5	21 dB	0.15 dB	±0.1 dB
CA008105	CA007805	5.5	21 dB	0.15 dB	±0.1 dB
CA003206	CA007706	6	21 dB	0.15 dB	±0.1 dB
CA008106	CA007806	6.5	21 dB	0.15 dB	±0.1 dB
CA003207	CA007707	7	21 dB	0.15 dB	±0.1 dB
CA008107	CA007807	7.5	20 dB	0.2 dB	±0.1 dB
CA003208	CA007708	8	20 dB	0.2 dB	±0.1 dB
CA008108	CA007808	8.5	20 dB	0.2 dB	±0.1 dB
CA003209	CA007709	9	20 dB	0.2 dB	±0.1 dB
CA008109	CA007809	9.5	19 dB	0.3 dB	±0.1 dB
CA003210	CA007710	10	19 dB	0.3 dB	±0.1 dB
CA008110	CA007810	10.5	19 dB	0.4 dB	±0.1 dB
CA003211	CA007711	11	19 dB	0.4 dB	±0.15 dB
CA008111	CA007811	11.5	19 dB	0.3 dB	±0.15 dB
CA003212	CA007712	12	19 dB	0.3 dB	±0.15 dB
CA008112	CA007812	12.5	19 dB	0.4 dB	±0.15 dB
CA003213	CA007713	13	19 dB	0.6 dB	±0.15 dB
CA008113	CA007813	13.5	19 dB	0.6 dB	±0.15 dB
CA003214	CA007714	14	20 dB	0.35 dB	±0.15 dB
CA008114	CA007814	14.5	20 dB	0.35 dB	±0.15 dB
CA003215	CA007715	15	20 dB	0.35 dB	±0.15 dB
CA008115	CA007815	15.5	20 dB	0.35 dB	±0.15 dB

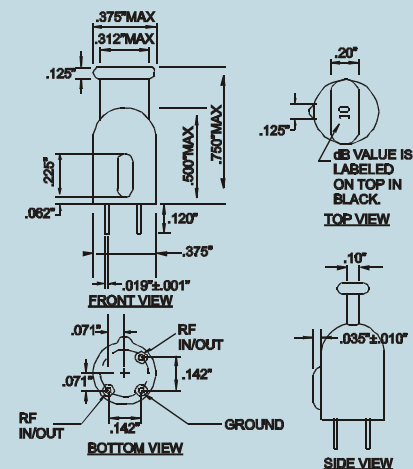
SXP T- Top Part#	SXP Regular Flat- Top Part#	dB value	Return Loss	Tilt	Flatness
CA003216	CA007716	16	20 dB	0.35 dB	±0.15 dB
CA008116	CA007816	16.5	20 dB	0.35 dB	±0.15 dB
CA003217	CA007717	17	20 dB	0.35 dB	±0.15 dB
CA008117	CA007817	17.5	20 dB	0.35 dB	±0.15 dB
CA003218	CA007718	18	20 dB	0.35 dB	±0.15 dB
CA008118	CA007818	18.5	20 dB	0.4 dB	±0.15 dB
CA003219	CA007719	19	20dB	0.4 dB	±0.15 dB
CA008119	CA007819	19.5	20 dB	0.4 dB	±0.15 dB
CA003220	CA007720	20	20 dB	0.5 dB	±0.15 dB
CA008120	CA007820	20.5	20 dB	0.5 dB	±0.15 dB
CA003221	Note 9	21	20 dB	0.5 dB	±0.20dB
CA003222	Note 9	22	20 dB	0.5 dB	±0.20 dB
CA003275	CA007775	75Ω	28 dB	TERMINATOR	

Mechanical Dimensions

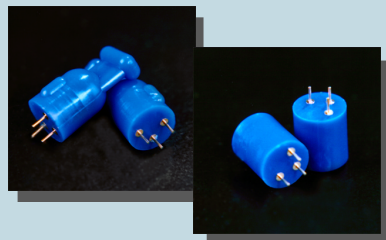
SXP Flat-Top Attenuator



SXP T-Handle Attenuator



SXP



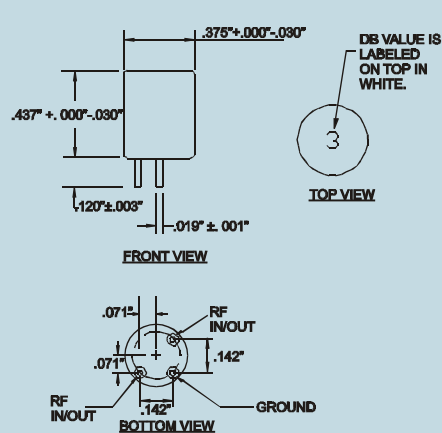
600 MHz Attenuators

SXP T- Top	SXP Regular Flat- Top	dB value	Return Loss	Tilt	Flatness
Part #	Part #				
CA004051	CA001873	0	16 dB	N / A	±0.15 dB
CA004072	CA001889	0.5	22 dB	0.15 dB	±0.1 dB
CA004052	CA001874	1	22 dB	0.15 dB	±0.1 dB
CA004073	CA001890	1.5	22 dB	0.15 dB	±0.1 dB
CA004053	CA001875	2	22 dB	0.15 dB	±0.1 dB
CA004074	CA001891	2.5	22 dB	0.15 dB	±0.1 dB
CA004054	CA001876	3	22 dB	0.15 dB	±0.1 dB
Note 9	Note 9	3.5	21 dB	0.15 dB	±0.1 dB
CA004055	CA001877	4	21 dB	0.15 dB	±0.1 dB
Note 9	Note 9	4.5	21 dB	0.15 dB	±0.1 dB
CA004056	CA001878	5	21 dB	0.15 dB	±0.1 dB
Note 9	Note 9	5.5	21 dB	0.15 dB	±0.1 dB
CA004057	CA001879	6	21 dB	0.15 dB	±0.1 dB
Note 9	Note 9	6.5	21 dB	0.15 dB	±0.1 dB
CA004058	CA001880	7	21 dB	0.15 dB	±0.1 dB
Note 9	Note 9	7.5	20 dB	0.2 dB	±0.1 dB
CA004059	CA001881	8	20 dB	0.2 dB	±0.1 dB
Note 9	Note 9	8.5	20 dB	0.2 dB	±0.1 dB
CA004060	CA001882	9	20 dB	0.2 dB	±0.1 dB
Note 9	Note 9	9.5	19 dB	0.3 dB	±0.1 dB
CA004061	CA001883	10	19 dB	0.3 dB	±0.1 dB
Note 9	Note 9	10.5	19 dB	0.4 dB	±0.1 dB
CA004062	CA001884	11	19 dB	0.4 dB	±0.15 dB
Note 9	Note 9	11.5	19 dB	0.6 dB	±0.15 dB
CA004063	CA001885	12	19 dB	0.6 dB	±0.15 dB
Note 9	Note 9	12.5	19 dB	0.8 dB	±0.15 dB
CA004064	CA001886	13	19 dB	0.8 dB	±0.15 dB
Note 9	Note 9	13.5	19 dB	0.9 dB	±0.15 dB
CA004065	CA001887	14	20 dB	0.35 dB	±0.15 dB
Note 9	Note 9	14.5	20 dB	0.35 dB	±0.15 dB
CA004066	CA001888	15	20 dB	0.35 dB	±0.15 dB
Note 9	Note 9	15.5	20 dB	0.35 dB	±0.15 dB

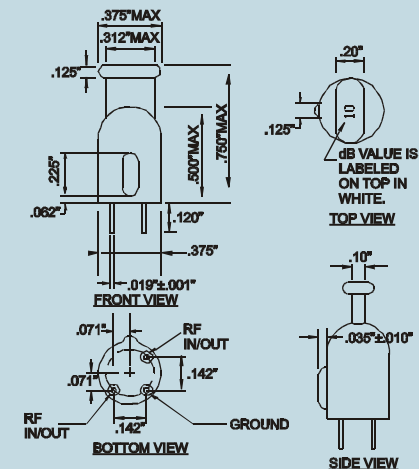
SXP T- Top	SXP Regular Flat- Top	Values dB	Return Loss	Tilt	Flatness
Part #	Part #				
CA004067	CA001893	16	20 dB	0.35 dB	±0.15 dB
Note 9	Note 9	16.5	20 dB	0.35 dB	±0.15 dB
CA004068	CA001894	17	20 dB	0.35 dB	±0.15 dB
Note 9	Note 9	17.5	20 dB	0.35 dB	±0.15 dB
CA004069	CA001895	18	20 dB	0.35 dB	±0.15 dB
Note 9	Note 9	18.5	20 dB	0.4 dB	±0.15 dB
CA004070	CA001896	19	20dB	0.4 dB	±0.15 dB
Note 9	Note 9	19.5	20 dB	0.4 dB	±0.15 dB
CA004071	CA001897	20	20 dB	0.5 dB	±0.15 dB
Note 9	Note 9	20.5	20 dB	0.5 dB	±0.15 dB
CA004683	Note 9	21	20 dB	0.5 dB	±0.20 dB
CA004684	Note 9	22	20 dB	0.5 dB	±0.20 dB
CA004685	Note 9	23	20 dB	0.5 dB	±0.20 dB
CA004076	Note 9	24	20 dB	0.5 dB	±0.20 dB
CA004686	Note 9	25	20 dB	0.5 dB	±0.20 dB
CA004687	Note 9	26	20 dB	0.5 dB	±0.20 dB
CA004075	CA001892	75Ω	28 dB	TERMINATOR	

Mechanical Dimensions

SXP Flat-Top Attenuator



SXP T-Handle Attenuator



SXP

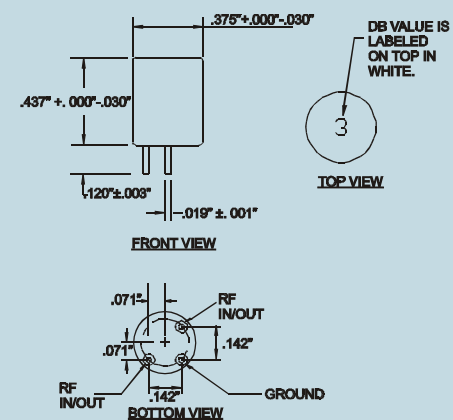


50 Ω 200 Mhz Attenuators

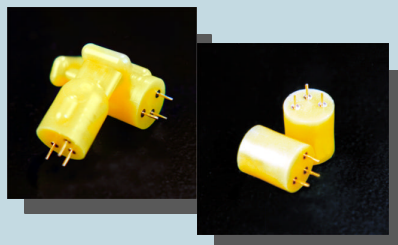
SXP Regular Flat- Top Part #	dB value	Return Loss	Tilt	Flatness
CA005378	0	19 dB	N / A	± 0.15 dB
CA005379	0.5	22 dB	0.15 dB	± 0.1 dB
CA005380	1	22 dB	0.15 dB	± 0.1 dB
CA005381	1.5	22 dB	0.15 dB	± 0.1 dB
CA005382	2	22 dB	0.15 dB	± 0.1 dB
CA005383	2.5	22 dB	0.15 dB	± 0.1 dB
CA005384	3	22 dB	0.15 dB	± 0.1 dB
CA005385	4	21 dB	0.15 dB	± 0.1 dB
CA005386	5	21 dB	0.15 dB	± 0.1 dB
CA005387	6	21 dB	0.15 dB	± 0.1 dB
CA005388	7	21 dB	0.15 dB	± 0.1 dB
CA005389	8	21 dB	0.15 dB	± 0.1 dB
CA005390	9	21 dB	0.15 dB	± 0.1 dB
CA005391	10	21 dB	0.15 dB	± 0.1 dB
CA005392	11	21 dB	0.15 dB	± 0.1 dB
CA005393	12	20 dB	0.2 dB	± 0.1 dB
CA005394	13	20 dB	0.2 dB	± 0.1 dB
CA005395	14	20 dB	0.2 dB	± 0.1 dB
CA005396	15	20 dB	0.2 dB	± 0.1 dB
CA005397	16	19 dB	0.3 dB	± 0.1 dB
CA005398	17	19 dB	0.3 dB	± 0.1 dB
CA005399	18	19 dB	0.4 dB	± 0.1 dB
CA005400	19	19 dB	0.4 dB	± 0.15 dB
CA005401	20	19 dB	0.6 dB	± 0.15 dB
CA005426	50 Ω	18 dB	TERMINATOR	

Mechanical Dimensions

SXP Flat-Top Attenuator



SXP



862 MHz
Attenuators



50 Ω
200 MHz
Attenuators



600 MHz
Attenuators

Note:

- 1 Insertion loss (S21) measurements are relative to 0dB unit in test fixture.
- 2 Usable frequency range is DC up to specified frequency.
- 3 Usable temperature range is -40°F to 176°F (-40°C to +80°C).
- 4 Power dissipation is 0.125 Watt up to 176°F (+80°C).
- 5 Characteristic impedance is 75 Ohms unless otherwise noted.
Communication Associates offers 50 Ohm Z_0 (characteristic impedance) and is capable of others upon request.
- 6 Return loss tested in CA test fixture. Contact Communication Associates for calibration and details.
- 7 Specific signature data is available upon request.
- 8 Body material is polypropylene. Electrical contact pins are gold plated brass.
- 9 This dB value is available upon request. Contact Communication Associates for details.
- 10 Yellow color denotes 862 MHz rating, Blue color denotes 600 MHz, Red color denotes 200 MHz (50 Ohm Z_0).
- 11 Specifications subject to change / improvement without notice.



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