

Frequency Mixer

ADE-20

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
1500.1	1530.1	5.95	5.69	5.58	1500.1	1530.1	11.52	12.62	14.66	1500.1	1530.1	0.41	0.25	0.16
1540.1	1570.1	6.00	5.73	5.64	1540.1	1570.1	12.16	13.25	13.98	1540.1	1570.1	0.34	0.28	0.15
1580.1	1610.1	6.05	5.74	5.66	1580.1	1610.1	11.49	13.40	15.08	1580.1	1610.1	0.37	0.28	0.12
1620.1	1650.1	6.11	5.78	5.67	1620.1	1650.1	11.58	13.36	14.97	1620.1	1650.1	0.29	0.20	0.12
1660.1	1690.1	6.14	5.84	5.74	1660.1	1690.1	11.69	13.40	14.12	1660.1	1690.1	0.23	0.17	0.15
1700.1	1730.1	6.14	5.86	5.78	1700.1	1730.1	11.83	13.37	13.90	1700.1	1730.1	0.28	0.10	0.11
1740.1	1770.1	6.16	5.84	5.76	1740.1	1770.1	11.66	13.85	14.43	1740.1	1770.1	0.35	0.20	0.15
1780.1	1810.1	6.13	5.79	5.72	1780.1	1810.1	11.97	13.22	14.73	1780.1	1810.1	0.26	0.22	0.13
1820.1	1850.1	6.15	5.76	5.66	1820.1	1850.1	12.08	12.48	14.78	1820.1	1850.1	0.32	0.15	0.17
1860.1	1890.1	6.17	5.74	5.63	1860.1	1890.1	12.20	12.79	13.80	1860.1	1890.1	0.17	0.11	0.15
1900.1	1930.1	6.26	5.78	5.66	1900.1	1930.1	11.89	12.33	15.30	1900.1	1930.1	0.24	0.12	0.13
1940.1	1970.1	6.23	5.75	5.63	1940.1	1970.1	12.68	12.20	15.13	1940.1	1970.1	0.33	0.10	0.16
1980.1	2010.1	6.28	5.79	5.67	1980.1	2010.1	13.02	12.98	15.00	1980.1	2010.1	0.26	0.11	0.14
2020.1	2050.1	6.25	5.77	5.64	2020.1	2050.1	13.85	12.67	15.70	2020.1	2050.1	0.22	0.14	0.15
2060.1	2090.1	6.30	5.80	5.68	2060.1	2090.1	13.46	13.07	15.30	2060.1	2090.1	0.19	0.08	0.06
2100.1	2130.1	6.28	5.77	5.64	2100.1	2130.1	13.68	13.45	15.09	2100.1	2130.1	0.31	0.17	0.08
2140.1	2170.1	6.27	5.81	5.68	2140.1	2170.1	15.19	13.75	14.76	2140.1	2170.1	0.25	0.18	0.13
2180.1	2210.1	6.31	5.79	5.66	2180.1	2210.1	14.83	14.33	15.00	2180.1	2210.1	0.18	0.17	0.11
2220.1	2250.1	6.31	5.82	5.69	2220.1	2250.1	15.09	14.09	15.51	2220.1	2250.1	0.17	0.12	0.10
2260.1	2290.1	6.35	5.83	5.71	2260.1	2290.1	16.36	15.60	16.01	2260.1	2290.1	0.25	0.12	0.15
2300.1	2330.1	6.40	5.89	5.76	2300.1	2330.1	16.84	15.05	15.74	2300.1	2330.1	0.32	0.09	0.09
2340.1	2370.1	6.39	5.93	5.80	2340.1	2370.1	16.00	14.76	17.20	2340.1	2370.1	0.30	0.07	0.07
2380.1	2410.1	6.49	5.98	5.88	2380.1	2410.1	13.54	17.46	15.62	2380.1	2410.1	0.34	0.12	0.15
2420.1	2450.1	6.48	5.99	5.90	2420.1	2450.1	13.05	17.49	16.21	2420.1	2450.1	0.36	0.14	0.08
2460.1	2490.1	6.61	6.09	5.99	2460.1	2490.1	11.69	17.99	17.28	2460.1	2490.1	0.34	0.20	0.16
2500.1	2530.1	6.71	6.18	6.08	2500.1	2530.1	11.12	19.99	19.77	2500.1	2530.1	0.27	0.11	0.11
2540.1	2570.1	6.72	6.20	6.10	2540.1	2570.1	10.01	16.72	20.58	2540.1	2570.1	0.29	0.22	0.17
2580.1	2610.1	6.88	6.28	6.15	2580.1	2610.1	9.25	16.03	17.72	2580.1	2610.1	0.27	0.23	0.17
2620.1	2650.1	6.98	6.37	6.20	2620.1	2650.1	8.97	14.52	16.77	2620.1	2650.1	0.33	0.18	0.08
2660.1	2690.1	7.30	6.52	6.29	2660.1	2690.1	9.23	14.56	18.65	2660.1	2690.1	0.12	0.22	0.13
2700.1	2730.1	7.59	6.81	6.53	2700.1	2730.1	10.28	17.50	18.76	2700.1	2730.1	0.22	0.14	0.14
2740.1	2770.1	7.91	7.13	6.84	2740.1	2770.1	12.13	31.08	20.13	2740.1	2770.1	0.08	0.07	0.08
2780.1	2810.1	8.23	7.46	7.13	2780.1	2810.1	13.01	24.01	18.56	2780.1	2810.1	0.05	0.16	0.04
2820.1	2850.1	8.46	7.76	7.47	2820.1	2850.1	14.38	25.58	18.93	2820.1	2850.1	0.06	0.08	0.04
2860.1	2890.1	8.74	8.03	7.77	2860.1	2890.1	15.00	23.06	18.30	2860.1	2890.1	0.12	0.07	0.09
2900.1	2930.1	8.98	8.32	8.06	2900.1	2930.1	14.96	20.34	20.45	2900.1	2930.1	0.13	0.08	0.11
2940.1	2970.1	9.16	8.53	8.30	2940.1	2970.1	14.37	21.75	24.44	2940.1	2970.1	0.11	0.10	0.06
3000.1	3030.1	9.64	8.97	8.73	3000.1	3030.1	13.89	23.73	22.03	3000.1	3030.1	0.05	0.08	-0.02
3040.1	3070.1	10.02	9.39	9.13	3040.1	3070.1	15.32	23.99	18.14	3040.1	3070.1	0.05	0.09	0.21
3100.1	3130.1	10.43	9.87	9.66	3100.1	3130.1	16.85	23.99	20.86	3100.1	3130.1	0.16	0.13	0.02



Frequency Mixer

ADE-20

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1750.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1500.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
250.0	1500.1	5.95	10.0	1510.1	5.96	300.0	1700.1	6.10
237.4	1512.7	5.94	17.3	1517.4	5.98	292.8	1707.4	6.08
224.7	1525.4	5.94	24.5	1524.6	5.79	285.5	1714.6	6.06
212.1	1538.0	5.93	31.8	1531.9	5.78	278.3	1721.9	6.06
199.5	1550.6	5.90	39.0	1539.1	5.76	271.0	1729.1	6.06
186.8	1563.3	5.91	46.3	1546.4	5.80	263.8	1736.4	6.06
174.2	1575.9	5.95	53.5	1553.6	5.73	256.5	1743.6	6.04
161.6	1588.5	5.95	60.8	1560.9	5.72	249.2	1750.9	6.02
148.9	1601.2	5.96	68.0	1568.1	5.76	242.0	1758.1	6.02
136.3	1613.8	5.98	75.3	1575.4	5.73	234.8	1765.4	6.02
123.7	1626.4	5.97	82.5	1582.6	5.69	227.5	1772.6	6.02
111.1	1639.0	5.96	89.8	1589.9	5.70	220.3	1779.9	6.01
98.4	1651.7	5.96	97.0	1597.1	5.71	213.0	1787.1	6.01
85.8	1664.3	5.94	104.3	1604.4	5.69	205.8	1794.4	6.01
73.2	1676.9	5.92	111.5	1611.6	5.67	198.5	1801.6	6.02
60.5	1689.6	5.89	118.8	1618.9	5.72	191.2	1808.9	6.00
47.9	1702.2	5.85	126.0	1626.1	5.73	184.0	1816.1	6.01
35.3	1714.8	5.84	133.3	1633.4	5.74	176.8	1823.4	6.03
22.6	1727.5	5.82	140.5	1640.6	5.75	169.5	1830.6	6.04
10.0	1740.1	5.85	147.8	1647.9	5.76	162.3	1837.9	6.04
10.0	1760.1	5.85	155.0	1655.1	5.76	155.0	1845.1	6.02
22.0	1772.1	5.76	162.3	1662.4	5.80	147.8	1852.4	6.04
34.0	1784.1	5.76	169.5	1669.6	5.79	140.5	1859.6	6.03
46.0	1796.1	5.77	176.8	1676.9	5.81	133.2	1866.9	6.01
58.0	1808.1	5.76	184.0	1684.1	5.83	126.0	1874.1	6.03
70.0	1820.1	5.76	191.3	1691.4	5.85	118.8	1881.4	5.99
82.0	1832.1	5.74	198.5	1698.6	5.87	111.5	1888.6	5.99
94.0	1844.1	5.76	205.8	1705.9	5.89	104.3	1895.9	6.02
106.0	1856.1	5.76	213.0	1713.1	5.92	97.0	1903.1	6.00
118.0	1868.1	5.76	220.3	1720.4	5.93	89.8	1910.4	5.94
130.0	1880.1	5.80	227.5	1727.6	5.97	82.5	1917.6	5.94
142.0	1892.1	5.82	234.8	1734.9	5.98	75.2	1924.9	5.95
154.0	1904.1	5.84	242.0	1742.1	6.00	68.0	1932.1	5.98
166.0	1916.1	5.86	249.3	1749.4	6.01	60.8	1939.4	5.94
178.0	1928.1	5.90	256.5	1756.6	6.02	53.5	1946.6	5.90
190.0	1940.1	5.91	263.8	1763.9	6.04	46.3	1953.9	5.91
202.0	1952.1	5.92	271.0	1771.1	6.06	39.0	1961.1	5.88
214.0	1964.1	5.96	278.3	1778.4	6.05	31.8	1968.4	5.90
238.0	1988.1	6.01	292.8	1792.9	6.08	17.2	1982.9	6.00
250.0	2000.1	6.02	300.0	1800.1	6.10	10.0	1990.1	5.99

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
1500.1	28.86	28.58	27.91	32.31	28.30	26.09
1540.1	28.65	28.36	27.53	34.10	29.90	27.65
1580.1	28.46	28.08	27.36	35.48	31.37	29.28
1620.1	28.15	27.52	26.86	36.62	33.03	31.06
1660.1	27.98	27.04	26.34	37.20	34.56	32.94
1700.1	27.87	26.86	25.95	37.42	35.93	34.76
1740.1	27.70	26.73	25.77	37.50	36.76	36.22
1780.1	27.29	26.50	25.67	37.60	37.21	36.99
1820.1	26.92	26.04	25.36	37.85	37.30	36.99
1860.1	26.72	25.79	25.11	37.82	36.99	36.34
1900.1	26.54	25.61	24.80	37.67	36.39	35.19
1940.1	26.34	25.55	24.75	37.49	35.79	34.15
1980.1	26.13	25.32	24.71	37.18	34.80	33.15
2020.1	25.97	25.29	24.74	37.05	34.21	32.28
2060.1	25.84	25.25	24.62	36.71	33.40	31.27
2100.1	25.62	25.20	24.59	36.57	33.06	30.70
2140.1	25.57	25.14	24.74	36.19	32.18	29.96
2180.1	25.47	25.28	24.97	35.80	31.92	29.54
2220.1	25.43	25.37	25.10	35.79	31.55	29.00
2260.1	25.37	25.44	25.20	35.12	30.90	28.53
2300.1	25.42	25.52	25.48	35.16	30.77	28.37
2340.1	25.48	25.69	25.67	34.86	30.43	27.93
2380.1	25.49	25.91	25.95	34.42	30.21	27.75
2420.1	25.42	26.05	26.15	34.41	30.02	27.29
2460.1	25.55	26.18	26.52	33.91	29.55	27.07
2500.1	25.53	26.18	26.71	34.05	29.64	27.00
2540.1	25.73	26.42	27.07	33.27	29.30	26.72
2580.1	25.90	26.46	27.11	32.87	29.22	26.68
2620.1	26.30	26.73	27.31	32.74	29.14	26.47
2660.1	26.91	27.18	27.63	32.27	28.80	26.21
2700.1	27.63	27.98	28.37	32.13	28.69	26.04
2740.1	28.39	28.84	29.21	31.64	28.12	25.56
2780.1	29.22	29.78	30.29	31.52	27.95	25.49
2820.1	29.96	30.70	31.28	31.47	27.90	25.20
2860.1	30.77	31.57	32.30	30.98	27.61	25.03
2900.1	31.50	32.23	33.10	31.10	27.63	25.00
2940.1	32.38	33.03	33.88	30.70	27.40	24.75
3000.1	33.64	34.13	34.78	30.59	27.17	24.63
3040.1	34.59	35.09	35.69	30.21	26.97	24.48
3100.1	35.80	36.59	37.04	29.93	26.72	24.12

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
1500.1	1530.1	8.95	8.48	8.21
1540.1	1570.1	9.12	8.65	8.39
1580.1	1610.1	9.17	8.78	8.55
1620.1	1650.1	9.29	8.94	8.72
1660.1	1690.1	9.38	9.03	8.86
1700.1	1730.1	9.51	9.16	8.97
1740.1	1770.1	9.77	9.40	9.20
1780.1	1810.1	9.92	9.66	9.50
1820.1	1850.1	10.04	9.88	9.76
1860.1	1890.1	10.24	10.13	10.04
1900.1	1930.1	10.27	10.27	10.21
1940.1	1970.1	10.44	10.49	10.49
1980.1	2010.1	10.74	10.85	10.89
2020.1	2050.1	11.09	11.28	11.33
2060.1	2090.1	11.40	11.62	11.76
2100.1	2130.1	11.74	12.05	12.22
2140.1	2170.1	12.12	12.49	12.73
2180.1	2210.1	12.53	12.98	13.31
2220.1	2250.1	12.84	13.38	13.74
2260.1	2290.1	13.26	13.93	14.36
2300.1	2330.1	13.78	14.55	15.00
2340.1	2370.1	14.30	15.17	15.67
2380.1	2410.1	14.80	15.79	16.41
2420.1	2450.1	15.37	16.46	17.12
2460.1	2490.1	16.01	17.13	17.84
2500.1	2530.1	16.65	17.82	18.60
2540.1	2570.1	17.42	18.52	19.25
2580.1	2610.1	18.12	19.24	19.96
2620.1	2650.1	18.98	20.01	20.67
2660.1	2690.1	19.81	20.72	21.31
2700.1	2730.1	20.86	21.66	22.12
2740.1	2770.1	22.08	22.64	22.99
2780.1	2810.1	23.30	23.72	23.91
2820.1	2850.1	24.28	24.43	24.43
2860.1	2890.1	25.24	24.99	24.84
2900.1	2930.1	25.76	25.30	24.93
2940.1	2970.1	26.00	25.27	24.81
3000.1	3030.1	25.91	25.11	24.59
3040.1	3070.1	25.48	24.69	24.22
3100.1	3130.1	24.90	24.19	23.66

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
1500.1	1530.1	1.33	1.45	1.54
1540.1	1570.1	1.38	1.47	1.56
1580.1	1610.1	1.46	1.55	1.63
1620.1	1650.1	1.49	1.57	1.63
1660.1	1690.1	1.56	1.66	1.73
1700.1	1730.1	1.55	1.66	1.74
1740.1	1770.1	1.62	1.74	1.84
1780.1	1810.1	1.66	1.74	1.83
1820.1	1850.1	1.76	1.84	1.93
1860.1	1890.1	1.84	1.88	1.94
1900.1	1930.1	1.90	1.94	2.01
1940.1	1970.1	1.93	1.93	1.98
1980.1	2010.1	1.91	1.91	1.96
2020.1	2050.1	1.92	1.91	1.95
2060.1	2090.1	1.83	1.83	1.89
2100.1	2130.1	1.90	1.91	1.98
2140.1	2170.1	1.83	1.85	1.92
2180.1	2210.1	1.92	1.95	2.04
2220.1	2250.1	1.88	1.91	1.98
2260.1	2290.1	1.94	1.97	2.05
2300.1	2330.1	1.84	1.85	1.93
2340.1	2370.1	1.82	1.86	1.95
2380.1	2410.1	1.75	1.77	1.87
2420.1	2450.1	1.77	1.83	1.95
2460.1	2490.1	1.77	1.83	1.95
2500.1	2530.1	1.87	1.95	2.10
2540.1	2570.1	1.94	2.01	2.15
2580.1	2610.1	2.08	2.13	2.26
2620.1	2650.1	2.18	2.18	2.27
2660.1	2690.1	2.35	2.31	2.39
2700.1	2730.1	2.54	2.46	2.49
2740.1	2770.1	2.81	2.77	2.80
2780.1	2810.1	3.13	3.09	3.12
2820.1	2850.1	3.47	3.47	3.53
2860.1	2890.1	3.97	3.96	4.03
2900.1	2930.1	4.44	4.44	4.54
2940.1	2970.1	5.03	5.00	5.09
3000.1	3030.1	5.89	5.85	5.93
3040.1	3070.1	6.11	6.05	6.07
3100.1	3130.1	7.08	7.20	7.28

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
1500.1	1.91	1.17	1.50
1540.1	1.95	1.21	1.54
1580.1	1.97	1.25	1.53
1620.1	2.00	1.28	1.54
1660.1	2.04	1.33	1.56
1700.1	2.06	1.36	1.56
1740.1	2.12	1.39	1.59
1780.1	2.14	1.42	1.58
1820.1	2.20	1.45	1.59
1860.1	2.24	1.49	1.60
1900.1	2.29	1.52	1.59
1940.1	2.36	1.57	1.63
1980.1	2.37	1.61	1.62
2020.1	2.47	1.65	1.65
2060.1	2.48	1.68	1.67
2100.1	2.55	1.71	1.66
2140.1	2.62	1.75	1.70
2180.1	2.65	1.78	1.68
2220.1	2.77	1.81	1.70
2260.1	2.76	1.83	1.71
2300.1	2.89	1.87	1.70
2340.1	2.94	1.90	1.73
2380.1	2.98	1.92	1.71
2420.1	3.14	1.96	1.73
2460.1	3.14	1.99	1.72
2500.1	3.33	2.03	1.69
2540.1	3.35	2.04	1.71
2580.1	3.43	2.07	1.68
2620.1	3.57	2.09	1.66
2660.1	3.56	2.10	1.64
2700.1	3.78	2.15	1.62
2740.1	3.77	2.15	1.60
2780.1	3.86	2.17	1.58
2820.1	4.05	2.21	1.56
2860.1	3.96	2.18	1.52
2900.1	4.16	2.22	1.49
2940.1	4.12	2.20	1.46
3000.1	4.30	2.21	1.40
3040.1	4.19	2.18	1.37
3100.1	4.39	2.21	1.34

IF (OUT) (MHz)	IF VSWR @LO=2000.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
10.1	1.64	1.26	1.22
17.4	1.97	1.48	1.14
24.6	1.78	1.37	1.20
31.9	1.75	1.34	1.19
39.1	1.59	1.28	1.19
46.4	1.56	1.26	1.13
53.6	1.56	1.24	1.17
60.9	1.53	1.25	1.16
68.1	1.52	1.25	1.15
75.4	1.54	1.24	1.14
82.6	1.56	1.26	1.14
89.9	1.57	1.28	1.16
97.1	1.60	1.30	1.20
104.4	1.63	1.33	1.23
111.6	1.66	1.35	1.26
118.9	1.65	1.38	1.29
126.1	1.66	1.38	1.29
133.4	1.65	1.38	1.29
140.6	1.63	1.38	1.31
147.9	1.61	1.37	1.32
155.1	1.61	1.40	1.34
162.4	1.60	1.38	1.32
169.6	1.60	1.38	1.33
176.9	1.61	1.39	1.34
184.1	1.62	1.41	1.36
191.4	1.62	1.43	1.36
198.6	1.62	1.42	1.39
205.9	1.63	1.43	1.40
213.1	1.64	1.44	1.42
220.4	1.63	1.45	1.43
227.6	1.61	1.45	1.43
234.9	1.60	1.44	1.44
242.1	1.60	1.46	1.45
249.4	1.58	1.46	1.45
256.6	1.58	1.45	1.46
263.9	1.58	1.44	1.45
271.1	1.58	1.45	1.46
278.4	1.56	1.44	1.46
292.9	1.56	1.46	1.49
300.1	1.57	1.46	1.49

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	24	13	25	27	34	35	42	38	47
1	-	3	+0	39	37	32	40	38	38	43	45	57
2	100	77	75	68	72	72	63	64	64	66	61	70
3	114	74	83	77	63	78	88	76	79	79	75	79
4	107	107	99	108	104	84	104	103	95	97	98	96
5	112	107	110	110	105	111	91	102	102	111	101	108
6	115	98	102	97	101	102	115	88	107	106	115	108
7	108	106	104	102	102	107	118	103	95	104	126	109
8	109	100	112	111	102	99	106	103	109	87	115	101
9	122	108	92	99	107	103	105	104	104	103	89	109
10	108	92	105	97	100	108	107	99	115	100	105	94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1750.1 MHz; -14.00 dBm.
 LO IN: 1780.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -20 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	22	34	23	36	38	47	54	61	57	65
1	-	3	+0	39	38	34	41	39	41	46	50	62
2	80	69	65	58	64	64	53	56	54	59	56	65
3	118	56	69	59	45	61	71	58	63	60	57	62
4	123	81	81	87	97	77	82	82	75	73	72	75
5	108	98	87	85	84	82	70	83	90	81	81	83
6	112	99	112	101	100	112	108	86	101	101	90	90
7	106	100	128	127	102	101	101	99	88	104	105	100
8	106	113	121	108	110	109	113	117	111	98	115	114
9	110	111	114	103	121	107	113	109	115	111	103	126
10	114	110	110	103	119	111	118	107	122	122	120	105
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1750.1 MHz; -4.00 dBm.
 LO IN: 1780.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -10.09 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
 2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
 3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

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