

SECTION VII

A REPRESENTATIVE LISTING
OF THE MOST COMMONLY USED
AIRPAX
MINIATURE AND MICRO-MIDGET
ELECTROMECHANICAL
CHOPPERS

AIRPAX 400, 60 AND 50 CPS LOW NOISE, LONG







50

Parameter	Series 175 	Series 190 	Series 300 	Series 310 	Series 360 	Series 370 
Drive Voltage and Frequency	6.3 volts @ 60 cps	6.3 volts @ 50 cps	6.3 volts @ 400 cps	6.3 volts @ 400 cps	6.3 volts @ 400 cps	6.3 volts @ 400 cps
Noise	50 uv RMS max., 1 megohm load	50 uv RMS max., 1 megohm load	200 uv RMS max., 1 megohm load	200 uv RMS max., 1 megohm load	200 uv RMS max., 1 megohm load	200 uv RMS max., 1 megohm load
Switching	SPDT, BBM	SPDT, BBM	SPDT, BBM	SPDT, BBM	SPDT, BBM	SPDT, BBM
Shock	100G	100G	100G	100G	100G	100G
Vibration	5G, to 500 cps	5G, to 500 cps	5G, to 500 cps	5G, to 500 cps	5G, to 500 cps	15G, to 2500 cps
Weight	1½ ounces max.	1½ ounces max.	1½ ounces max.	1½ ounces max.	1½ ounces max.	1½ ounces max.
Life	5,000 hrs. min.	2,000 hrs. min.	5,000 hrs. min.	2,000 hrs. min.	5,000 hrs. min.	2,000 hrs. min.
Temp. Range	-65°C to +100°C	-65°C to +100°C	-65°C to +100°C	-65°C to +125°C	-65°C to +100°C	-65°C to +125°C
Phase Angle	20° ±5°	20° ±6°	65° ±15°	65° ±15°	55° ±15°	58° ±12°
Dwell Time	150° to 177°	155° to 177°	130° to 165°	130° to 165°	145° to 175°	145° to 175°
Dissymmetry	15° max.	15° max.	15° max.	15° max.	15° max.	15° max.
Transit Time	2°	2°	2°	2°	2°	2°
Bounce	4° max.	4° max.	4° max.	4° max.	4° max.	4° max.
Contact Rating	100 VDC, 2 MA max.	100 VDC, 2 MA max.	100 VDC, 2 MA max.	100 VDC, 2 MA max.	100 VDC, 2 MA max.	100 VDC, 2 MA max.
Coil Resistance	155 ohms	155 ohms	155 ohms	155 ohms	155 ohms	148 ohms
Coil Impedance	185 ohms	185 ohms	270 ohms	270 ohms	235 ohms	235 ohms
Airpax Spec.	#232	#234	#219	#239	#242	#243

LIFE, MINIATURE ELECTROMECHANICAL CHOPPERS

Parameter	Series 400 	Series 600 	Series 1400 	Series 1800 	Series 2300 	Series 2400 
Drive Voltage and Frequency	6.3 volts @ 400 cps	6.3 volts @ 400 cps	6.3 volts @ 60 cps	6.3 volts @ 60 cps	6.3 volts @ 400 cps	6.3 volts @ 60 cps
Noise	200 uv RMS max., 1 megohm load	200 uv RMS max., 1 megohm load	70 uv RMS max., 1 megohm load	70 uv RMS max., 1 megohm load	4 uv RMS max., 100 ohm load	2 uv RMS max., 100 ohm load
Switching	SPDT, BBM	DPDT, BBM	SPDT, MBB	DPDT, MBB	SPDT, BBM	SPDT, BBM
Shock	100G	100G	100G	100G	100G	100G
Vibration	5G, to 500 cps	5G, to 500 cps	5G, to 500 cps	5G, to 500 cps	5G, to 500 cps	5G, to 500 cps
Weight	1½ ounces max.	2 ounces max.	1½ ounces max.	2 ounces max.	1½ ounces max.	1½ ounces max.
Life	2,000 hrs. min.	2,000 hrs. min.	2,000 hrs. min.	2,000 hrs. min.	2,000 hrs. min.	2,000 hrs. min.
Temp. Range	-65°C to +100°C	-65°C to +100°C	-40°C to +85°C	-40°C to +85°C	-65°C to +100°C	-65°C to +100°C
Phase Angle	65° ± 15°	65° ± 15°	21° ± 10°	21° ± 10°	30° ± 15°	20° ± 5°
Dwell Time	130° to 165°	130° to 165°	178° to 218°	180° to 220°	130° to 170°	150° to 177°
Dissymmetry	15° max.	15° max.	20° max.	20° max.	18° max.	15° max.
Transit Time	2°	2°	0°	0°	2°	2°
Bounce	4° max.	4° max.	4° max.	4° max.	4° max.	4° max.
Contact Rating	100 VDC, 2 MA max.	100 VDC, 2 MA max.	100 VDC, 2 MA max.	100 VDC, 2 MA max.	100 VDC, 2 MA max.	100 VDC, 2 MA max.
Coil Resistance	155 ohms	78 ohms	108 ohms	54 ohms	300 ohms	155 ohms
Coil Impedance	270 ohms	131 ohms	120 ohms	60 ohms	315 ohms	185 ohms
Airpax Spec.	#264	#244	#247	#252	#249	#248

AIRPAX MICRO-MIDGET ELECTROMECHANICAL CHOPPERS

Parameter	Model 30A 	Model 33A 	Model 36A 	Model 40A 	Model 43A 	Model 46A 
Drive Voltage and Frequency	6.3 volts @ 60 cps	6.3 volts @ 60 cps	6.3 volts @ 60 cps	6.3 volts @ 400 cps	6.3 volts @ 400 cps	6.3 volts @ 400 cps
Noise	6 uv RMS max. 1 megohm load	6 uv RMS max. 1 megohm load	6 uv RMS max. 1 megohm load	6 uv RMS max. 1 megohm load	6 uv RMS max. 1 megohm load	6 uv RMS max. 1 megohm load
Switching	SPDT, BBM	SPDT, BBM	SPDT, BBM	SPDT, BBM	SPDT, BBM	SPDT, BBM
Shock	100G	100G	100G	100G	100G	100G
Vibration	15G, 55-2500 cps	15G, 55-2500 cps	15G, 55-2500 cps	15G, 55-2500 cps	15G, 55-2500 cps	15G, 55-2500 cps
Volume	0.151 cu. in.	0.453 cu. in.	0.455 cu. in.	0.151 cu. in.	0.453 cu. in.	0.455 cu. in.
Weight	9 grams	22½ grams	20½ grams	9 grams	22½ grams	20½ grams
Life, min.	2,000 hrs.	2,000 hrs.	2,000 hrs.	2,000 hrs.	2,000 hrs.	2,000 hrs.
Temp. Range	-65°C to +100°C	-65°C to +100°C	-65°C to +100°C	-65°C to +100°C	-65°C to +100°C	-65°C to +100°C
Phase Angle	25° ± 10°	25° ± 10°	25° ± 10°	65° ± 15°	65° ± 15°	65° ± 15°
Dwell Time	155° to 185°	155° to 185°	155° to 185°	140° to 185°	140° to 185°	140° to 185°
Dissymmetry	15° max.	15° max.	15° max.	15° max.	15° max.	15° max.
Transit Time	2°	2°	2°	5°	5°	5°
Bounce	4° max.	4° max.	4° max.	4° max.	4° max.	4° max.
Contact Rating	10 VDC, 2 MA max.	10 VDC, 2 MA max.	10 VDC, 2 MA max.	10 VDC, 2 MA max.	10 VDC, 2 MA max.	10 VDC, 2 MA max.
Coil Resistance	310 ohms	310 ohms	310 ohms	85 ohms	85 ohms	85 ohms
Coil Impedance	330 ohms	330 ohms	330 ohms	115 ohms	115 ohms	115 ohms
Airpax Spec.	#266-1	#266-5	#266-7	#288-7	#288-8	#288-9