

CHARACTERISTICS OF CUBIC AND CYLINDRICAL SHAPES MICA™ ACTUATORS



PARAMETER	UNIT	MICA100M	MICA200M	MICA500L	MICA20CS	MICA50CS	MICA200CM	MICA300CM
	-	Preliminary	Standard	Standard	Standard	Preliminary	Preliminary	Standard
> Specifications								
Nominal Force	N	100	175	330	20	50	200	300
Nominal Force constant	N/A	7	12	22	40	10	24	33
Peak Force	N	200	320	440	30	80	360	540
Peak Force constant	N/A	6	9	17	30	9	20	30
Available mechanical stroke (peak to peak)	mm	3	5	10	1	4	10	12
Nominal Force @ 50 % available stroke	N	90	160	230	14	35	150	230
Nominal Force @ 80 % available stroke	N	75	130	185	7	18	70	110
DC Resistance	Ohm	0.2	0.2	0.6	13.5	0.3	0.3	0.3
Inductance	mH	4	6	90	80	3	8	12
Max Acceleration	g	170	160	50	50	55	120	95
Standard linear bearing type	-	Flexure	Flexure	Flexure	Flexure	Bushing	Bushing	Bushing
Weight	kg	2.0	3.2	8.0	0.35	1.2	1.9	3.2
Moving part weight	kg	0.12	0.21	0.85	0.14	0.15	0.30	0.58
Cross section size	mm	80×80	12×80	150×140	40 Ø	70 Ø	90 Ø	100 Ø
Length	mm	115	115	160	60	70	90	120
> Options								
Sensor	-	✓	✓	✓	✓ ⁽¹⁾	✓	✓	✓
Flexure bearing ⁽²⁾	-	✓	✓	✓	✓ ⁽²⁾	✓	✓	✓
Cooling	-			✓ ⁽²⁾		✓	✓	✓

1 Force sensor

2 Standard configuration, not optional