

FOR REFERENCE ONLY

PIEZOELECTRIC MICRO PUMP

SPECIFICATIONS for MODEL APP-20KG

MAXIMUM FLOW RATE	:	15ml/min(Typ.) (DISCHARGE/SUCTION LOAD PRESSURE=0kPa)
MAXIMUM PUMP PRESSURE	:	25kPa(typ.)(FLOW RATE=0ml/min)
SUCTION LOAD PRESSURE	:	-1.0kPa(Typ.)
PORT CONNECTION	:	HOSE BARB
FLUID MEDIA	:	FLUIDS CHEMICALLY COMPATIBLE WITH MATERIALS BELOW
MEDIA TEMPERATURE RANGE	:	5 ~ 50°C
AMBIENT TEMPERATURE RANGE	:	5 ~ 50°C
STORAGE TEMPERATURE RANGE	:	0 ~ 55°C
DRIVE METHOD	:	PIEZOELECTRIC ELEMENT
DRIVE VOLTAGE	:	60 ~ 250Vp-p(SINE OR TAKASAGO STANDARD WAVE FORM)
DRIVE FREQUENCY	:	10 ~ 60Hz
POWER CONSUMPTION	:	32mW(REFERENCE, STANDARD DRIVE CONDITION DRIVE FREQUENCY: 40Hz) 48mW(REFERENCE, STANDARD DRIVE CONDITION DRIVE FREQUENCY: 60Hz)

THE ABOVE SPECIFICATIONS ARE BASED ON THE FOLLOWING CONDITIONS

STANDARD DRIVE CONDITION	:	AMBIENT AND FLUID TEMPERATURE: 25°C FLUID MEDIA: PURE WATER DRIVE VOLTAGE: 250Vp-p(SINE WAVE) DRIVE FREQUENCY: 40Hz
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WETTED MATERIALS

PTFE SHEET	PTFE	1	
O-RING	DAIEL PERFLUOR	1	
ELASTOMER CHECK VALVE	DAIEL PERFLUOR	2	
PLASTICS DIAPHRAGM	PEEK	1	
DOWN SIDE PUMPHOUSING	PEEK	1	
UP SIDE PUMPHOUSING	PEEK	1	
PART NAME	MATERIAL	REQD.	NOTE
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