SEMI E19.2-0697
PORT STANDARD FOR MECHANICAL INTERFACE OF WAFER CASSETTE TRANSFER, 125 mm (5 inch) PORT

The complete specification for this interface includes all general requirements of SEMI E19.

Table 1 Port Dimensions for 125 mm (5 in.) Wafer Cassette

Port Door	A1	85.72 mm ± 0.13 mm	(3.375 in. ± 0.005 in.)
	A2	85.72 mm ± 0.13 mm	(3.375 in. ± 0.005 in.)
	A3	9.53 mm ± 0.25 mm	(0.375 in. ± 0.010 in.)
Guide Rails	B1	102.87 mm ± 0.13 mm	(4.050 in. ± 0.005 in.)
	B2	95.25 mm ± 0.13 mm	(3.750 in. ± 0.005 in.)
	B3	6.35 mm ± 0.25 mm	(0.250 in. ± 0.010 in.)
	B4	6.35 mm ± 0.25 mm	(0.250 in. ± 0.010 in.)
	B5	17.78 mm (0.700 in.)	maximum
	B6		
	B7	12.70 mm (0.500 in.)	minimum
	B8	3.18 mm ± 0.25 mm	(0.125 in. ± 0.010 in.)
	B9	6.35 mm (0.250 in.)	maximum radius
Latch Pins	C1	93.98 mm ± 0.13 mm	(3.700 in. ± 0.005 in.)
	C2	6.35 mm ± 0.13 mm	(0.250 in. ± 0.005 in.)
	C3	63.50 mm ± 0.13 mm	(2.500 in. ± 0.005 in.)
	C4	3.18 mm ± 0.05 mm	(0.125 in. ± 0.002 in.) diameter
	C5		
	C6	6.35 mm ± 0.25 mm	(0.250 in. ± 0.010 in.)
	C7	Full spherical radius	
	C8	4.44 mm (0.175 in.)	minimum
Registration Pins	D1	127.20 mm ± 0.13 mm	(5.000 in. ± 0.005 in.)
	D2	63.50 mm ± 0.13 mm	(2.500 in. ± 0.005 in.)
	D3	139.70 mm ± 0.13 mm	(5.500 in. ± 0.005 in.)
	D4	69.85 mm ± 0.13 mm	(2.750 in. ± 0.005 in.)
	D5	6.35 mm ± 0.08 mm	(0.250 in. ± 0.003 in.)
	D6	10.16 mm ± 0.25 mm	(0.400 in. ± 0.010 in.)
	D7	Full spherical radius	
Latch Pin Force each	F1	1.36 kg (3 lb)	minimum
	F2	1.36 kg (3 lb)	minimum
Position of Cassette	G1	12.70 mm ± 0.25 mm	(0.500 in. ± 0.010 in.)
	G2	0.50 mm (0.020 in.)	maximum

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