



Recommended PCB Layout

Materials and Finish

Contact Material: Phosphor Bronze
 Contact Finish: 160u" Tin plated on contact area, Tin on soldertails, with entire contact Nickel underplated
 Insulator Material: High Temp. Thermo- plastic, 40% glass filled, UL94V-0 Rated

Electrical Specifications

Contact Current Rating: 1A
 Contact Resistance:
 Initial: 6.5 milliohms
 Final: 15 milliohms max after testing
 Insulation Resistance: 10000 Megohms min.
 Dielectric Strength: 1000 VAC rms for 1 minute
 Capacitance: less than 1pF at 1000 KHz
 Inductance: Self: 5.0nH max. at 5000KHz
 Mutual: 1.0nH max. at 5000KHz

Environmental Specifications

Thermal Shock: Cycled from +55°C to +80°C, no discontinuity or physical damage per MIL-STD-1344, method 1003, Condition A
 Temperature/Humidity: 85°C/85%RH (per MIL-STD-1344, method 1002)

Mechanical Specifications

Durability: 25 cycles (per MIL-STD-1344, method 2016)
 Vibration: 5G's per MIL-STD-810C, Method 514.2, 10-200,000 Hz
 Shock: 35G's (per MIL-STD-810C, method 516.2)
 Acceleration: 15G's (per MIL-STD-810C, method 513.2)
 Contact Normal Force: 210g per pin

Operating Temperature:
 -50°C to +105°C

Max. Processing Temperature:
 230°C for 30 Sec
 260°C for 5 Sec

DIMENSIONS								
Number of Contacts	A±0.2	B±0.2	C±0.1	D±0.1	E±0.2	F±0.2	G±0.15	H±0.15
20	15.85	15.85	5.08	5.08	18.80	12.70	9.50	8.50
28	18.18	18.18	7.62	7.62	20.40	16.24	12.10	12.10
32	18.18	20.75	7.62	10.18	22.20	17.78	14.84	12.10
44	23.28	23.28	12.70	12.70	31.20	20.32	17.18	17.18
52	25.84	25.84	16.24	16.24	32.20	22.88	19.72	19.72
68	30.05	30.05	20.32	20.32	38.40	27.94	24.80	24.80
84	36.00	36.00	25.40	25.40	45.80	33.02	29.88	29.88

PART NUMBER ORDERING INFORMATION					
Part Number	No. of Contacts	Polarizing Pegs	Part Number	No. of Contacts	Polarizing Pegs
SMPX-20LCC-N	20	NO	SMPX-20LCC-P	20	YES
SMPX-28LCC-N	28		SMPX-28LCC-P	28	
SMPX-32LCC-N	32		SMPX-32LCC-P	32	
SMPX-44LCC-N	44		SMPX-44LCC-P	44	
SMPX-52LCC-N	52		SMPX-52LCC-P	52	
SMPX-68LCC-N	68		SMPX-68LCC-P	68	
SMPX-84LCC-N	84		SMPX-84LCC-P	84	



Tolerances
X.X ± 0.25
X.XX ± 0.15
Unless Stated Otherwise

REV.	DATE	DESCRIPTION	REV. BY	CHK. BY	DRAWN BY	DATE
A1	6/30/05	New Drawing	H. MA	C. Furumasa	H. MA	6/30/05

SMPX-xxLCC-y
 xx = number of contacts
 y = polarizing peg option

Surface Mount PLCC Socket, RoHS compliant
 y = N for no pegs or P for parts with pegs

