



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	15.65	15.65	5.08	5.08	16.80	12.70	9.56	9.56
28	18.18	18.18	7.62	7.62	20.40	15.24	12.10	12.10
32	18.18	20.75	7.62	10.16	22.20	17.78	14.64	12.10
44	23.28	23.28	12.70	12.70	31.20	20.32	17.18	17.18
52	25.84	25.84	15.24	15.24	32.20	22.86	19.72	19.72
68	30.95	30.95	20.32	20.32	38.40	27.94	24.80	24.80
84	36.00	36.00	25.40	25.40	45.60	33.02	29.88	29.88

**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

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	

**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



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
A2	8/14/09	Fix dim. block	H. MA	N/A		

**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

