



Recommended PCB Layout  
(Bottom View)

**Material and Finish**

Body: PBT Thermoplastic,  
Color: Black

Contacts: Copper Alloy

Contact Plating:  
Gold Flash on Contact Area  
Tin on Termination,  
Both over Nickel underplate

Shield: SPCC, Tin Plated

**Electrical Characteristics**

Contact Resistance:  
Before Durability Test:  
Plug to Terminals: 30 Milliohms Max.  
After Durability Test:  
Plug to Terminals: 60 Milliohms Max.

Insulation Resistance:  
500 Megohms Min.

Dielectric Withstanding Voltage:  
500V AC RMS For 1 Minute

Contact Current Rating:  
2A at 12V DC

**Mechanical Characteristics**

Durability Test: 1000 Cycles

Insertion Force: 3.0kg max.

Extraction Force: 0.3kg - 3.0kg

Operating Temperature: -25°C to +80°C

Tolerances
X.X ± 0.3
X.XX ± 0.15
Unless Stated
Otherwise



REV.	DATE	DESCRIPTION	REV. BY	CHK. BY	DRAWN BY	DATE
A3	09/30/09	Add Dimension	S. Vien	H. MA	R. Aguirre	09/23/05
A4	09/23/10	ECO #10-064	S. Vien	H. MA		
A5	05/27/11	ECO #11-020	S. Vien	H. MA		
A6	06/16/14	ECO #14-021	D. Gih	H. MA	UNITS	mm
A7	02/13/15	ECO #15-017	H. MA	C. Furumasu		
A8	03/05/18	ECO #18-013	J. Elbanna	H. MA		

**KMDGX-10S-BS**

10 Pos. Mini-DIN, Fully Shielded, RoHS Compliant

Center Board Lock, Gold Flash Contacts

