

MATERIALS

1. HOUSING :

GLASS FILLED POLYESTER UL 94V-0 (BLACK)

PHYSICAL PROPERTIES	ASTM TEST METHOD	VALUES	UNIT	TEST RESULTS
MECHANICAL				
Tensile Strength	D638	110min	Mpa	131
Elongation	D638	1.5min	%	OK
Flexural Modulus	D790	7,800	Mpa	1.6 OK 11,380 OK
IMPACT				
Izod,Notched	D256	68min	J/M	92 OK
Thermal				
Deflection Temperature @1.8Mpa(264psi)	D648	230min	degree C	240 OK
OTHER				
Specific Gravity	D792		---	1.69
Flammability Rating @0.8mm(0.032in)	UL94		---	OK v-0 OK
ELECTRICAL				
Dielectric Strength @3.1mm(0.125in)	D149		kV/mm(V/mil)	580(22.8) OK
Dielectric Constant 1kHz / 1MHZ	D150	3.3/3.3	---	3.3 OK
Dissipation Factor 1kHz / 1MHZ	D150	0.003/0.008	---	0.003/0.080 OK
Working Temperature				-25°C to +85°C
Storage Temperature				-40°C to +85°C

Note: Measured at 23 degree C. ,D. A

2. CONTACT :

PHOSPHOR BRONZE

PROPERTIES	STANDARD VALUE	UNIT	TEST RESULTS
Thickness	0.35*0.46	mm	0.35*0.46 OK
CONTACT FINISH			Min max
Underplate	40-60	U“	40 OVER
Plated Gold In Contact Area	6	u“	6 OVER
Plated Pure Tin On Solder Tail	80-100	u“	80 OVER
MECHANICAL			
Tensile Strength	60.5-70.5	Kgf/mm ²	68.3 OK
Elongation	11mim	%	22.8 GOOD
Durability(Total Mating Force)	Initial max 6.0 min 5.5	Lbs	After Durability Test Max 6.7 GOOD min 5.5 GOOD
PHYSICAL			
Hardness	210-230	HV	221 GOOD
High Temperature Life	250hours/50	----	Passed
Contact Resistance	Initial max min 15 1.6	milliohm	Max min 11 1.5
Insulation Resistance	5x10 ³ 3x10 ³	milliohm	5x10 ⁵ 1x10 ⁵
Resistance to Soldering Heat	240 / 3-5 seconds	----	Meet product spec.
ELECTRICAL			Detail date- See testing record
Current Rating	max 1.5	amp	OK
Voltage Rating	max 150	volt	OK
Dielectric Withstanding Voltage	1000	volts RMS, 60HZ/minute	OK OK
Insulation Resistance	min 500	Megohm/500Vdc	OK
Contact Resistance	max 40	Milliohm/20mVd c max	OK

Note: Measured at 23 degree C. ,D. A. M.

3. SHIELDED :

COPPER ALLOY WITH TIN PLATED SHELL

PROPERTIES	STANDARD VALUE	UNIT	TEST RESULTS	
THICKNESS	(-)0.10-(+)0.00	mm	0.250	OK
TIN PLATED SHELL	50-80	u“	OVER 50	OK
TIN PLATING ON SOLDER TAIL	80-100	u”	OVER 80	OK
MECHANICAL				
Tensile Strength	42.0-52.0	kgf/mm	51.20	OK
Elongation	14.0-17.0	%	16.78	OK
PHYSICAL				
Hardness	105-175	HV	154.0-157	OK
ELECTRICAL				
Electric Conductivity	---	%	24.6	OK
CHEMICAL				
Cu	64.00-68.00	%	65.296	OK
Fe	max. 0.050	%	0.023	OK
Pb	max 0.070	%	0.013	OK
Zn	REM.	%	REM.	OK

Note: Measured at 23 degree C. ,D. A. M.