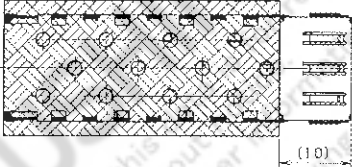
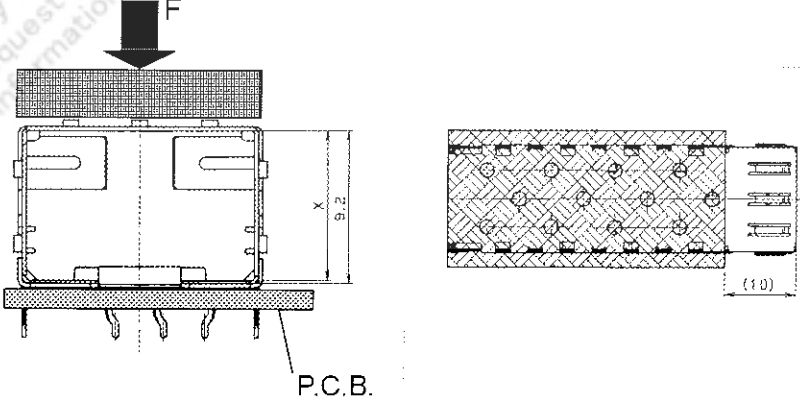


HONDA TSUSHIN KOGYO CO., LTD. TOKYO JAPAN		Sheet	1 of 4	
		Date	January 23, 2003	
PRODUCT SPECIFICATION		Approved by	Checked by	Written by
SFP (Small Form Factor Pluggable) press-in cage (8 press-in legs and 3 EMI clips)		<i>K. Onishi</i> K. Onishi	<i>K. Kasai</i> K. Kasai	<i>K. Yotsutani</i> K. Yotsutani
		△	Apr.22.2003	K.Y
		LTR.	Date	By
				New Rev.
				Rev. description
1.Cage part number AKX-CGP				
2. Specification				
No.	Item	Specification		
1	Storage Temperature	- 40°C ~ 85°C		
2	Humidity	85%RH maximum		
3	Press-in insertion force	<p>Measure insertion force when cage is settled in PCB with the force applied at the top (Hatching area). It shall be between 147N and 294N.</p>  <p>Cage top view</p>		
4	Cage strength	<p>When the force of 500N is applied to the cage for five seconds at all over the top (Hatching area) with flat press block, cage shall satisfy the following requirements.</p>  <p>Cage front view</p> <p>P.C.B.</p> <p>Cage top view</p>		

No.	Item	Specification
		1) Appearance There shall be no evident damage. 2) Cage lock force See item #7 3) Cage kick-out spring force See item #6 4) Contact resistance See item #5 5) Dimension X Cage opening dimension shall be 8.95±0.15mm.
5	Contact resistance	Measure contact resistance in accordance with Method 3002.1 of MIL-STD-1344. 1) Press-in contact Contact resistance between cage and PCB through press-in contact shall not exceed 100m ohm including cage material resistance. After environment and durability test, it shall not exceed 200m ohm. 2) FG clip There shall be electrical connection between cage and PCB through FG clip.
6	Cage kick-out spring force	When steel examination tool is released out of cage by finger spring at the back end, it shall move forward from transceiver locking position.
7	Cage lock force	Measure cage lock force when steel examination tool is pulled out of cage. it shall be no less than 90N.
8	Cage retention force	Measure retention force when cage is removed from PCB. It shall not be less than 39.2N.
9	Durability	When subjected to 100 cycles of insertion and withdrawal cycle with steel examination tool at the rate of 600 cycles per hour, cage shall satisfy the following requirements. 1) Appearance There shall be no evident damage. 2) Cage lock force See item #7. 3) Cage kick-out spring force See item #6. 4) Contact resistance See item #5.
10	Moisture resistance	When tested in accordance with Method 106E of MIL-STD-202F-G, cage shall satisfy the following requirements. Temperature: -10°C to 65°C Humidity: 90 to 98%RH Test cycle: 10cycles (1 cycle is 24hours.) 1) Appearance There shall be no any excessive corrosion on every part of cage. 2) Contact resistance See item #5.

No.	Item	Specification
11	Thermal shock	<p>When tested in accordance with Method 107G of MIL-STD-202F-G, test condition A, cage shall satisfy the following requirements.</p> <p>Temperature: -55°C to 85°C Test cycle: 5cycles</p> <ol style="list-style-type: none"> 1) Appearance There shall be no evident damage. 2) Contact resistance See item #5.
12	High temperature life	<p>When tested in accordance with Method 108A of MIL-STD-202F-G, cage shall satisfy the following requirements.</p> <p>Temperature: 85°C Test time: 250 hours</p> <ol style="list-style-type: none"> 1) Appearance There shall be no evident damage. 2) Contact resistance See item #5.
13	Mixed flowing gas	<p>When tested in accordance with EIA-364-65A, test condition class 2, cage shall satisfy the following requirements.</p> <p>Concentration: H₂S: 10ppb NO₂: 200ppb CL₂: 10ppb SO₂: 100ppb Temperature: 30°C Test time: 14 days</p> <ol style="list-style-type: none"> 1) Appearance There shall be no any excessive corrosion on every part of cage. 2) Contact resistance See item #5
14	Vibration	<p>When tested in accordance with Method 204D of MIL-STD-202F-G, Test condition B, cage shall satisfy the following requirements.</p> <p>Acceleration: 98 m/s² peak Frequency range: 10Hz to 500Hz</p> <ol style="list-style-type: none"> 1) Appearance There shall be no evident damage. 2) Contact resistance See item #5.
15	Shock	<p>When tested in accordance with Method 213B of MIL-STD-202F-G, Test condition C, cage shall satisfy the following requirement.</p> <p>Acceleration: 490 m/s² (Semi- sine wave) Standard holding time: 6 milliseconds</p> <ol style="list-style-type: none"> 1) Appearance There shall be no evident damage. 2) Contact resistance See item #5.

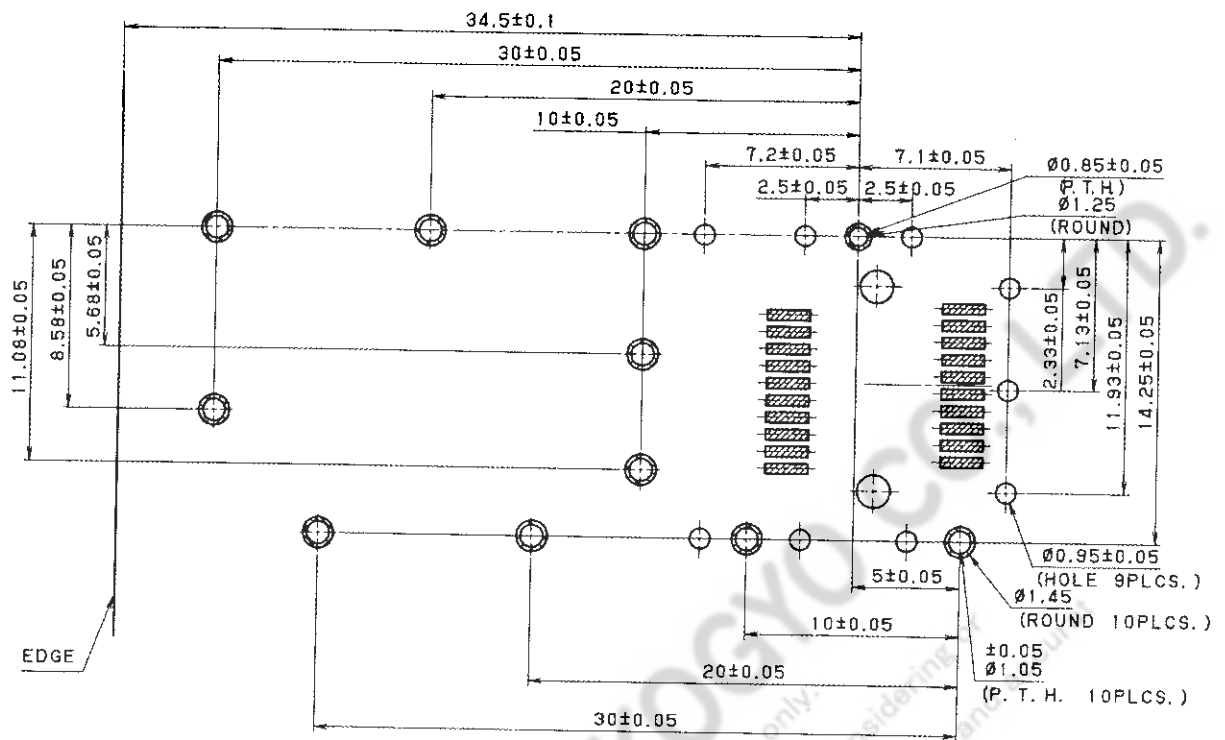


Fig 1. Recommended P.C.B. layout

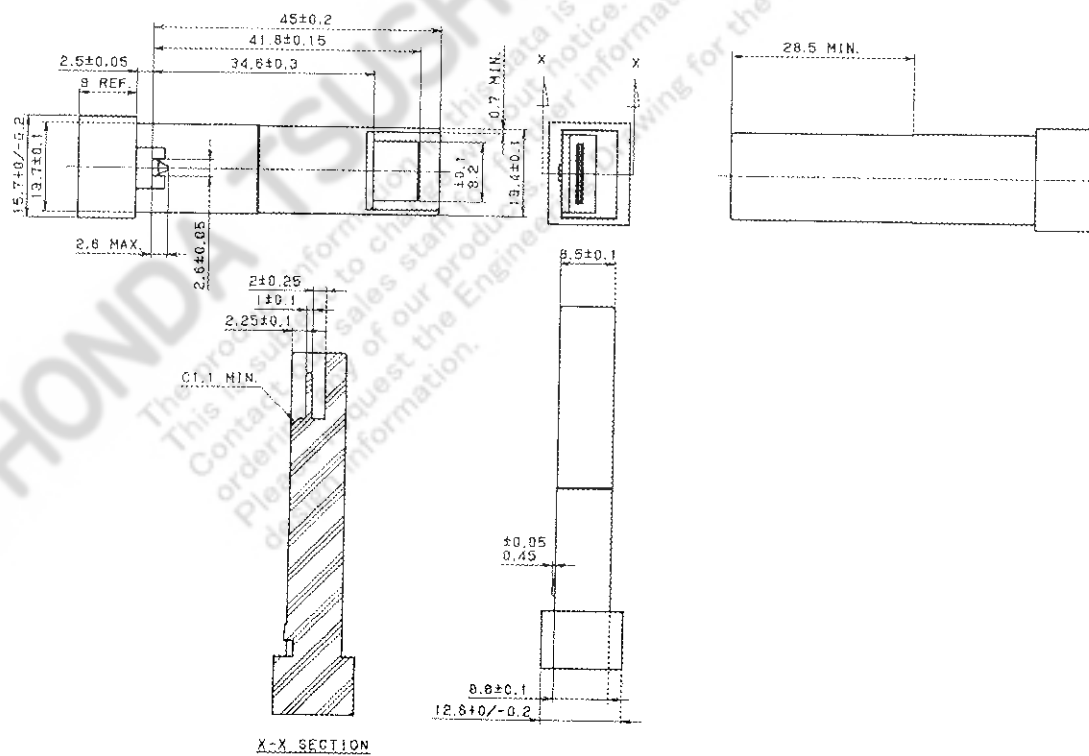


Fig 2. Steel examination tool as dummy optical transceiver