

- Embedded Mode
- DCS Power Loss Protection
- End to End Data Protection
- Wear Leveling & Bad Block Detection
- S.M.A.R.T. Enable (Life Time Monitoring)
- Auto Refresh Read Disturb Protector
- CID Product Name, Serial Numbers (Optional)
- ISO9001 / ISO14001 / ISO27001 / OHSAS18001
- Meet AEC-Q100 Grade 3
- Comply with Secure Digital Association / SDA standard
- Conforms to ISO7816-1 UV Guard & X-Ray Proof
- Extreme Rugged, Vibration, Water and Shock Resistant
- Fixed BOM, Made In Taiwan



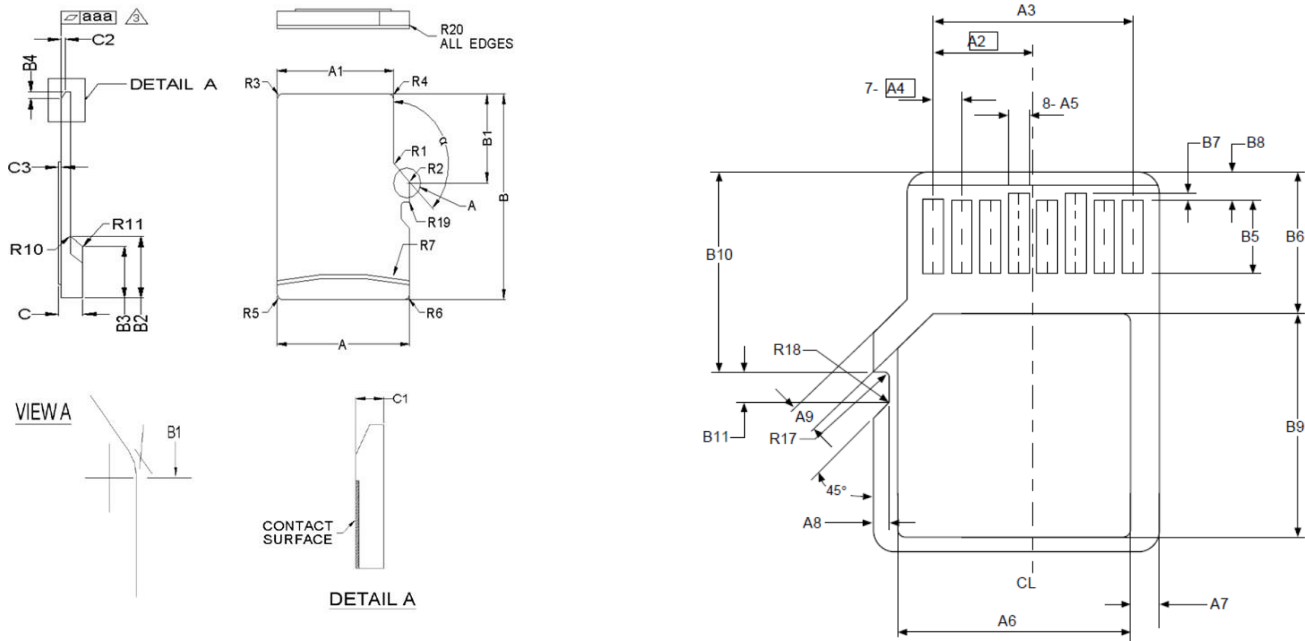
TS Connect Industrial MicroSD Cards Series are Designed for demanding Industrial applications, such as Embedded, Military/ Defence, Aerospace, Surveillance, Marine Navigation, Automotive, Communication Equipment, Networking and Medical Equipment.

The MicroSD Series is equipped with High-Performance distributed Writing Function using a Global Static Wear Leveling Algorithm. The products achieve Industry-Leading Storage Life, Reliability, Durability, and Data Integrity.

Technical Shortform Specification				
Electrical Data	Capacities:	1GB	2GB	4GB
	Interface:	8-pin. Support Version 2.0 and 3.0		
	Transfer Rate (SLC):	Read: 50MB/s		Write: 40MB/s
	DC Voltage Input:	2.7-3.6Vdc		
	Power Consumption:	100mA (Typical.)		
Environmental Data	Operating TEMP.:	Commercial: -25°C to +85°C	Industrial/MIL: -40°C to +85°C	
	Storage TEMP.:	-40°C to +85°C		
	Humidity:	10% to 95% Non Condensing		
Reliability Data	IP Grade:	IPX7		
	Vibration:	5G (10-500Hz)	20G (60-2000Hz)	
	Shock:	1500G (0.5mS)		
	ESD Protection:	4kV		
	Endurance:	>2.000.000 Cycles		
	Program/Erase Cycles:	SLC: >100.000 Times		
	Data Retention:	>10 Years Minimum		
	Insertion Reliability:	>10.000 Times Minimum		
	MTBF:	>3.000.000 Hours Minimum		
Mechanical	Dimensions (L x W x H):	15 x 11 x 1mm		
	Weight:	1g (microSD Card Only)	6g (microSD with Small Case)	
Ordering Information/Partnumber				
Capacities	SLC (-25°C)	SLC (-40°C)		
1GB	TFPX001GC6-TSC	TFPX001GI6-TSC		
2GB	TFPX002GC6-TSC	TFPX002GI6-TSC		
4GB	TFPX004GC6-TSC	TFPX004GI6-TSC		

\* For Complete Datasheet and Drawing Please Contact TS Connect AB / Power Outlet

## Mechanical Drawings



SYMBOL	COMMON DIMENSIONS			NOTE
	MIN	NOM	MAX	
A	10.90	11.00	11.10	
A1	9.60	9.70	9.80	
A2	-	3.85	-	BASIC
A3	7.60	7.70	7.80	
A4	-	1.10	-	BASIC
A5	0.75	0.80	0.85	
A6	-	-	8.50	
A7	0.90	-	-	
A8	0.60	0.70	0.80	
A9	0.80	-	-	
A10	1.35	1.40	1.45	
A11	6.50	6.60	6.70	
A12	0.50	0.55	0.60	
A13	0.40	0.45	0.50	
B	14.90	15.00	15.10	
B1	6.30	6.40	6.50	
B2	1.64	1.84	2.04	
B3	1.30	1.50	1.70	
B4	0.42	0.52	0.62	
B5	2.80	2.90	3.00	
B6	5.50	-	-	
B7	0.20	0.30	0.40	
B8	1.00	1.10	1.20	
B9	-	-	9.00	
B10	7.80	7.90	8.00	
B11	1.10	1.20	1.30	
B12	3.60	3.70	3.80	
B13	2.80	2.90	3.00	
B14	8.20	-	-	
B15	-	-	6.20	
C	0.90	1.00	1.10	
C1	0.60	0.70	0.80	
C2	0.20	0.30	0.40	
C3	0.00	-	0.15	
D1	1.00	-	-	
D2	1.00	-	-	
D3	1.00	-	-	
R1	0.20	0.40	0.60	
R2	0.20	0.40	0.60	
R3	0.70	0.80	0.90	
R4	0.70	0.80	0.90	
R5	0.60	0.80	0.90	
R6	0.60	0.80	0.90	
R7	29.50	30.00	30.50	
R10	-	0.20	-	
R11	-	0.20	-	
R17	0.10	0.20	0.30	
R18	0.20	0.40	0.60	
R19	0.05	-	0.20	
R20	Δ	-	0.15	
α	133°	135°	137°	
aaa			0.10	

- Notes :
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M - 1994.
  2. DIMENSIONS ARE IN MILLIMETERS.
  - Δ COPLANARITY IS ADDITIVE TO C1 MAX THICKNESS.
  - Δ ALL EDGES SHALL NOT BE SHARP AS TESTED PER UL1439 "Test for Sharpness of Edges on Equipment."
  5. Refer to Appendix E about test method of warpage.