

### FEATURES:

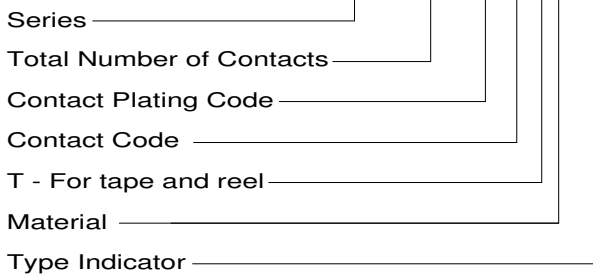
- Up to 480 Mbps communication speed for standard USB 2.0
- Up to 5 Gbps communication speed for standard USB 3.0
- Up to 10 Gbps communication speed for USB 3.1 Type C
- Readily available in:

- Single Port position (Type C) **NEW**
- Single Port position (Type A, B, Miniature USB-A)
- Single Port position (Miniature USB-B, Miniature USB-AB)
- Single Port (IEEE 1394)
- Single Port (E-SATA)
- Dual Ports (Type A)
- Single Port - Standard USB 3.0 compliance (Type A, Type B)
- Single Port -Micro USB 3.0 compliance (Type B)
- Triple Ports (Type A)
- Quadruple Ports (Type A)
- Dual Ports -USB 3.0 compliance (Type A)
- Single Port (HDMI)
- Single Port (Mini DisplayPort)
- Dual Ports Combo - (Type A and HDMI)
- Dual Ports (HDMI)

Industry Standard Plug and play technology Hot Pluggable  
 Compatible with synchronous and asynchronous data transfer  
 Data and power combined in one small package  
 RoHS Compliant

SPECIFICATIONS:	
Insulator Material:	UL 94V-0 Thermoplastic, PA9T or LCP
Contact Material:	Phosphor Bronze or Copper Alloy
Contact Plating:	Gold Plating over Nickel Plating on mating area and Tin Plating on tails
Shell Material:	Brass with Tin Plating
Durability:	1500 Cycles Minimum
Mating Force:	35N Maximum (For Standard USB)
Unmating Force:	10N Minimum (For Standard USB)

### EXAMPLE PART NUMBER: 690-004-220-013



### Contact Code:

20	Right Angle PCB (.390" Footprint)
21	Right Angle PCB (.405" Footprint)
22	Right Angle PCB (.147" Footprint)
23	Right Angle PCB (.114" Footprint)
24	Vertical with Solder Pad, Thru Hole Type
60	Vertical PCB
61	Right Angle PCB (Upright), for Type A only
95	Right Angle, Surface Mount with Metal Mounting Angles
96	Right Angle, Surface Mount with Metal Post
97	Right Angle, Surface Mount with Plastic Post
98	R/Angle, S/Mount W/Metal Post(4) Thru hole Grounding tab
99	R/Angle, S/Mount W/Metal Post(2) Thru hole Grounding tab

### Material:

0	Thermoplastic Black, UL 94V-0
1	PA9T Black
2	LCP White
3	Thermoplastic Black, Plastic Tray Packaging
4	LCP Black

### Total Number of Contacts:

Single Port position (Type A, Type B, Miniature USB-A)	004
Single Port position (Miniature USB-B, Miniature USB-AB)	005
Single Port (IEEE 1394)	006
Single Port (E-SATA)	007
Dual Ports (Type A)	008
Single Port - Standard USB 3.0 compliance (Type A, Type B)	009
Single Port -Micro USB 3.0 compliance (Type B)	010
Triple Ports (Type A)	012
Quadruple Ports (Type A)	016
Dual Ports -USB 3.0 compliance (Type A)	018
Single Port (HDMI)	019
Single Port (Mini DisplayPort)	020
Dual Ports Combo - (Type A and HDMI)	023
Single Port position (Type C)	024

### Type Indicator:

Standard Type A	13
Standard Type B	23
Standard Type C (3.1)	24
Miniature USB Type B	43
Miniature USB Type AB	53
Miniature Display Port	63
E-SATA 7P Male	73
Micro USB-AB	83

### Contact Plating Code:

Gold Flash Plating	2
15 µm Gold	3
30 µm Gold	6

T= tape & Reel, B= Tube, C= Tray, D= Box

### ORDERING CODE NOTES:

All part numbers deriving from this ordering guide may not be readily available or could be available upon request. Please contact EDAC's customer service for more inquiries.