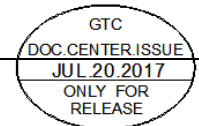


Part Number	C2 Type C Metal Engineering Specifications				
Specifications		(REV.)	(DATE)	(PREPARED)	(APPROVED)
Current Rating	5A Max For VBUS 0.25A Max For Others	A0	2017/07/20	Lucas	Ray
AWG Gauge	32/26 AWG				
Operation temperature	With Cable -40°C / +85°C				
	Without Cable -40°C / +105°C				
IP Rating	IP 68				
Material					
Panel Housing	Zn Alloy , Ni Plated				
Type C Receptacle Housing	HI-TEMP Plastic				
Type C Receptacle Contacts	Copper Alloy , Au Plated				
Type C Receptacle Shell	Stainless Steel , Ni Plated				
Panel Gasket	Silicone				
Panel Hex Nut	Zn Alloy , Ni Plated				
Glue	Epoxy				
Cable End Screw Nut	Zn Alloy , Ni Plated				
Type C Plug Housing	HI-TEMP Plastic				
Type C Plug contacts	Copper Alloy , Au Plated				
Type C Plug Shell	Stainless Steel , Ni Plated				
Cable End Rubber Pad	Silicone				
Inner Mold	PVC				
Over Mold	PVC				
Product Technical Data					
Characteristics	Standard	Description			
Visual and Dimensional Inspection	EIA 364-18	Must meet or exceed the requirements specified by the most current version of the Type C Specification.			
Insulation Resistance	EIA 364-21 or IEC 60512-3a	DC100V±10% , test for 1 minute and the insulation resistance should be more than5MΩ			
Dielectric Withstanding Voltage	EIA 364-20 or IEC 60512-4a	100 V DC/AC peak, contact-to-contact, for 1min.			
Contact Resistance	EIA 364-06 Method B or IEC 60512-2b	500mΩ at 10mA Max.			
Insertion and withdrawal forces	IEC60512,13b	Speed: 12.5 mm/s maximum per minute. Insertion : 5~20N Withdrawal : 8~20N			
Durability	EIA 364-09 or IEC 60512-9a	10,000 Cycles			
Cable Pull-Out	EIA 364-38 Test Condition A or IEC 60512-13a	After the application of a steady state axial load of 40 N for one minute.			
Cable Flexing	EIA 364-41	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle , the cycling rate shall be 12 to 14 cycles per minute. After completion of 100 cycles , test withstanding voltage and insulation resistance			



Physical Shock	EIA 364 27 Test Condition H or IEC 60512-6c	No discontinuities of 1 μ s or longer duration when mated Type C connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular planes for a total of 18 shocks.
Random Vibration	EIA 364-28 or IEC 60512-6d	The electrical load conditions shall be 100mA maximum for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g^2 /Hz. Duration: 1 Hour/Axis, 3 Axes Total. g's: 7.56 g rms
Thermal Shock	EIA 364-32 Test Condition A or IEC 60512-11d	5 cycles at -40°C / +105°C , after the test, the function and appearance can't be impacted.
Salt Spray	EIA 364-26 or IEC 60512-11f	The test liquid (NaCl) thickness is 5%, Compressing the air pressure is 0.083Mpa, Spraying amount is 1~2 ml/80cm/h , Temperature of the pressure barrel is 43°C , LAB temperature is 35°C , relative humidity of LAB is 95%~98% , test time is 48hr , after the test, check if there is rusty and oxidized phenomenon
Waterproof Test	IEC 60529	Under 1 M water for 24 hr.
Temperature Life W/O Electrical Load	EIA364-17 Condition 3 or IEC 60512-9b	85°C for 96 Hours
Low Temperature	EIA364-59 Condition 3 or IEC 60512-11k	-40°C for 96 Hours
Temperature Humidity Cycling	EIA 364-31 , Method III Test Condition A	4 cycles at 25°C / +65°C 95%RH (1 cycles/day)
UV Exposure	ASTM G154-06 operating fluorescent light apparatus for UV exposure of nonmetallic materials	24 H equal 1 year : 8 h UV at 70 (\pm 3) °C Black Panel Temperature 4 h Condensation at 50 (\pm 3) °C Black Panel Temperature

