

USB 2.0 Signal & Power Isolator

KEN-165-02



KEY FEATURES

- USB 2.0 Signal Isolator with integrated ESD protection
- Specifically designed to isolate Low Speed and Full Speed communications
- Plug-and-Play
- 200mA of Power Isolation
- 2.5kV Isolation for 60s
- Integrated Signal Boosting

ELECTRICAL CHARACTERISTICS

PARAMETER	MIN	TYP	MAX	UNIT
Supply Voltage	4.5	---	5.5	V
Logic Input High Threshold	2	---	---	V
Logic Input Low Threshold	---	---	0.8	V
Idle Current	---	35	---	mA
Maximum Load Current	---	200	250	mA
Low Speed Data Rate	---	1.5	---	Mbps
High Speed Data Rate	12	---	---	Mbps
Propagation Delay	20	60	325	ns
Ambient Temperature Range	0	---	60	°C
Input - Output Isolation (60s)	---	---	2.5	kV _{RMS}

ESD Protection to:

IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact)

IEC 61000-4-4 (EFT) 40A (5/50ns)

IEC 61000-4-5 (Lightning) 12A (8/20µs)

SAFETY

OPERATING TEMPERATURE

The operating temperature range is -20°C to 40°C.

STORAGE TEMPERATURE

The storage temperature range is -20°C to 85°C

APPROVALS



RoHS



WEEE



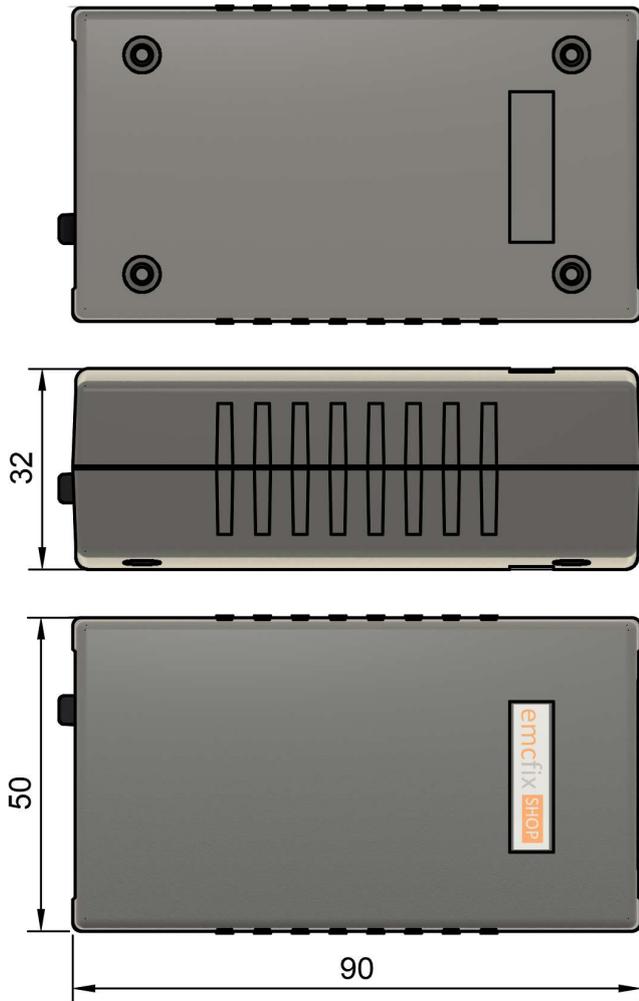
CE



UKCA

V1.0 – August 2024

MECHANICAL CHARACTERISTICS



Enclosure Specs

- Grey Textured ABS Body
- Orange FR4 End Plates
- 90mm x 50mm x 32 mm
- IP3X Rating

Device Function

