



ModICE Connector Enclosures

Products » Transportation » ModICE Connector Enclosures

[Features](#) | [Part Numbers & Drawings](#) | [Assembly & Application Tooling](#) | [PN Matrix](#)

Rugged Connector Enclosure System

Main Features

- Three Enclosure Sizes
 - Mini – ME 18, 30 and 48 I/O
 - Small – SE 18, 30 and 48 I/O
 - Large – LE 30, 48 and 60 I/O
- Interfaces with Cinch SHS Harness Connector
- Header modularity and blank headers offer design flexibility for alternate interconnects
- Simple Assembly
 - Mount Header to PCB
 - Process PCB
 - Slide Header/PCB assembly in the Enclosure and snap shut
- PCB – Board Size (approximately)
 - ME – 4.08 x 3.35" (103 x 85 mm)
 - SE – 4.50 x 4.60" (114 x 117 mm)
 - LE – 6.00 x 6.10" (152 x 155 mm)
 - Actual board dimensions are defined on the header prints. [Check header PDFs below.](#)



Optional Features

- Ferrite filter
 - Integrated ferrite blocks
 - Typical attenuation 3-7 dB (actual will depend on board design)
- Breather vent
 - Improved performance for thermal and altitude cycling
- Heat sink (SE and LE only)
 - One or two heat sink integrated in the enclosure
 - Up to 6 TO-220 MOSFET per heat sink
 - Must use spring plates to hold the MOSFETS

Material Specifications

- Housings – Glass filled polymer
- Pins – Brass – Post tin plated
- Seals – Silicone elastomer
- RoHS – Compliant

Electrical Specifications*

- Current 10 Amp @ 85oC
- Contact Resistance <10 m Ω
- Insulation Resistance >1000 M Ω @ 1000 VDC



Environmental **

- Operating Temperature -55oC to +85oC
- Sealing IP67, IP69K
- Current Cycling 500 Hr
- Salt Fog 96 Hr
- Thermal Shock 10 cycles
- Vibration 10 to 2000 Hz – 20 g peak level – XYZ – 24 Hr
- Shock 50 g – 20 pulses
- Temperature Humidity 1008 Hr
- Temperature Life 1000 Hr
- UV exposure 1000 Hr
- Resists to most fluids used in industrial applications

* Mated to SHS Harness Connector

** ME Enclosure

[back to top](#)

ModICE™ Part Numbers and PDF Drawings

ModICE™ ME Mini Enclosure

Part Number	Drawing	Size	Breather
581 01 30 065	PDF	ME	No
581 01 30 075	PDF	ME	Yes

ModICE™ ME Mini Header

Part Number	Drawing	Size	I/	Filter
581 01 18 039	PDF	ME	18	Yes
581 01 18 038	PDF	ME	18	No
581 01 30 072	PDF	ME	30	Yes
581 01 30 064	PDF	ME	30	No
581 01 48 010	PDF	ME	48	Yes



581 01 48 009	PDF	ME	48	No
581 00 00 055	PDF	ME	Blank	No

ModICE™ SE Small Enclosure

Part Number	Drawing	Size	Heat Sink	Breather
581 01 30 043	PDF	SE	-	No
581 01 30 042	PDF	SE	1	No
581 01 30 041	PDF	SE	2	No
581 01 30 059	PDF	SE	-	Yes
581 01 30 058	PDF	SE	1	Yes
581 01 30 057	PDF	SE	2	Yes

ModICE™ SE Small Header

Part Number	Drawing	Size	I/	Filter
581 01 18 032	PDF	SE	18	No
581 01 18 033	PDF	SE	18	Yes
581 01 30 044	PDF	SE	30	No
581 01 30 046	PDF	SE	30	Yes
581 01 48 005	PDF	SE	48	No
581 01 48 007	PDF	SE	48	Yes
581 00 00 027	PDF	SE	Blank Face	No

ModICE™ LE Large Enclosure

Part Number	Drawing	Size	Heat Sink	Breather
581 01 60 033	PDF	LE	-	No
581 01 60 032	PDF	LE	1	No
581 01 60 031	PDF	LE	2	No
581 01 60 039	PDF	LE	-	Yes
581 01 60 038	PDF	LE	1	Yes
581 01 60 037	PDF	LE	2	Yes

ModICE™ LE Large Header

Part Number	Drawing	Size	I/	Filter
581 01 30 045	PDF	LE	30	No
581 01 30 051	PDF	LE	30	Yes
581 01 48 006	PDF	LE	48	No
581 01 48 008	PDF	LE	48	Yes
581 01 60 005	PDF	LE	60	No
581 01 60 006	PDF	LE	60	Yes
581 00 00 028	PDF	LE	Blank Face	No

Spring Plates For Heat Sink Option (SE and LE only)

Part Number	Drawing	Description
581 00 00 020	PDF	Use with 2 heat sink option
581 00 00 021	PDF	Use with 1 and 2 heat sink option

[back to top](#)

ModICE™ Tooling

ModICE Tooling	
Tool to assemble ModICE SE & LE	599 11 11 650
Tool to open ModICE SE	599 11 11 611
Tool to open ModICE LE	599 11 11 612
Tool to open ModICE ME	599 11 11 440

[back to top](#)

ModICE™ to SHS Mating Connector P/N Matrix

ModICE	Size	I/	SHS Harness Connector Mate 1	SHS Harness Connector Mate 2
--------	------	----	------------------------------	------------------------------

581 01 18 032	SE	18	581 01 18 023	N/A
581 01 18 033	SE	18	581 01 18 023	N/A
581 01 18 038	ME	18	581 01 18 023	N/A
581 01 18 039	ME	18	581 01 18 023	N/A
581 01 30 044	SE	30	581 01 30 029	N/A
581 01 30 045	LE	30	581 01 30 029	N/A
581 01 30 046	SE	30	581 01 30 029	N/A
581 01 30 051	LE	30	581 01 30 029	N/A
581 01 30 064	ME	30	581 01 30 029	N/A
581 01 30 072	ME	30	581 01 30 029	N/A
581 01 48 005	SE	48	581 01 18 023	581 01 30 029
581 01 48 006	LE	48	581 01 18 023	581 01 30 029
581 01 48 007	SE	48	581 01 18 023	581 01 30 029
581 01 48 008	LE	48	581 01 18 023	581 01 30 029
581 01 48 009	ME	48	581 01 18 023	581 01 30 029
581 01 48 010	ME	48	581 01 18 023	581 01 30 029
581 01 60 005	LE	60	581 01 30 028	581 01 30 029
581 01 60 006	LE	60	581 01 30 028	581 01 30 029



[back to top](#)