

0.50MM PITCH

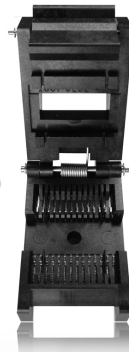
SERIES IC51 (CLAMSHELL - TH) - SOP, TSOP TYPE I & II

SPECIFICATIONS

Insulation Resistance:	1,000MΩ min. at 500V DC
Dielectric Withstanding Voltage:	700V AC for 1 minute
Contact Resistance:	30mΩ max. at 10mA/20mV max.
Operating Temperature Range:	-40°C to +150°C (for type PSF) -55°C to +170°C (for type PES & PEI)
Mating Cycles:	10,000 insertions min.

MATERIALS AND FINISH

Housing:	Polyetherimide (PEI), glass-filled
Contacts:	Beryllium Copper (BeCu)
Plating:	Gold over Nickel



PART NUMBER

IC51 - 028 2 - 334-1 - MF

Series No.

No. of Contact Pins

Number of Sides with Contacts

Design Number

MF = Flanged

Unmarked = Not Flanged

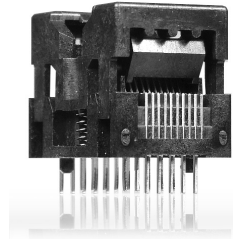
SERIES IC189 (OPEN TOP - TH) - SOP, TSOP TYPE I & II

SPECIFICATIONS

Insulation Resistance:	1,000MΩ min. at 100V DC, pitch 0.4, 0.5 1,000MΩ min. at 500V DC, pitch 0.65, 0.8, 1.27
Dielectric Withstanding Voltage:	100V AC for 1 minute, pitch 0.4, 0.5 500V AC for 1 minute, pitch 0.65 700V AC for 1 minute, pitch 0.8, 1.27
Contact Resistance:	30mΩ max. at 10mA/20mV max.
Operating Temperature Range:	-40°C to +150°C
Mating Cycles:	10,000 insertions
Contact Force:	20g to 80g per pin

MATERIALS AND FINISH

Housing:	Polysulphone (PSF), glass-filled Polyethersulphone (PES), glass-filled Polyetherimide (PEI), glass-filled
Contacts:	Beryllium Copper (BeCu)
Plating:	Gold over Nickel



PART NUMBER

IC189 - 016 2 - 019 - * *

Series No.

No. of Contact Pins

Number of Sides with Contacts

Design Number

Positioning Pin:

N = Without Positioning Pin

P = With Positioning Pin

Protection Key**

K = With Protection Key

Unmarked = Without Protection Key

** Protection Key: Prevents IC from releasing during transportation

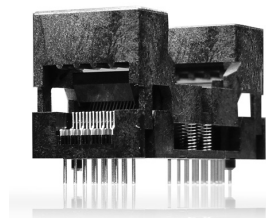
SERIES IC191 (OPEN TOP - TH) - THIN SMALL OUTLINE PACKAGE (TSOP TYPE I)

SPECIFICATIONS

Insulation Resistance:	1,000MΩ min. at 500V DC
Dielectric Withstanding Voltage:	700V AC for 1 minute
Contact Resistance:	30mΩ max. at 10mA/20mV max.
Current Rating:	1A max.
Operating Temperature Range:	-40°C to +170°C -40°C to +150°C (type -004*)
Mating Cycles:	10,000 insertions min.
Contact Force:	20g to 80g per pin

MATERIALS AND FINISH

Housing:	Polyetherimide (PEI), glass-filled
Contacts:	Beryllium Copper (BeCu)
Plating:	Gold over Nickel



PART NUMBER

IC191 - 032 2 - 001 - *

Series No.

No. of Contact Pins

Number of Sides with Contacts

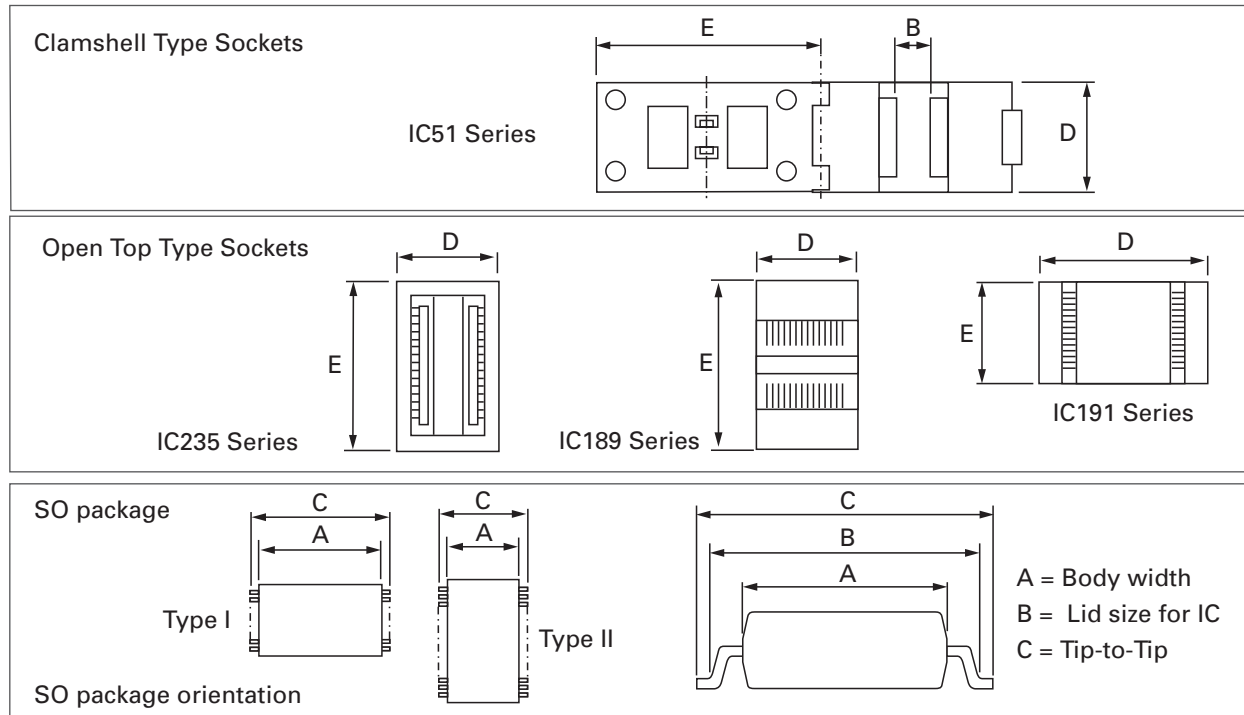
Design Number

Positioning Pin:

N = Without Positioning Pin

Unmarked = With Positioning Pin

0.50MM PITCH

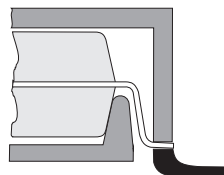


C L = Clamshell, OT = Open Top, S = Separator, FB = Floating Base

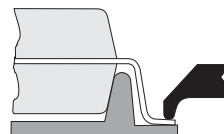
Part Number	Pin Count	IC Body A	IC Socket and Lid Size B (max.)	IC Tip-to-Tip C	Socket Dimensions D x E	Package Type	Note
IC51-0242-1006-1	24	14.30	15.20	16.00	15.0 x 40.0	TSOP I	CL/FB
IC51-0302-2037	30	4.40	5.70	6.40	18.0 x 38.0	SOP	CL/FB
IC191-0322-001 *-*	32	18.40	-	20.00	40.0 x 16.0	TSOP I	OT
IC51-0322-1031-1	32	12.00	13.30	14.00	16.0 x 33.5	TSOP I	CL/FB
IC51-0322-1207-1	32	18.40	19.30	20.00	18.0 x 44.0	TSOP I	CL/FB
IC51-0322-883-1	32	14.00	14.50	16.00	16.0 x 39.0	TSOP I	CL/FB
IC51-0382-2036	38	4.40	5.70	6.40	25.0 x 38.0	SOP	CL/FB
IC189-0402-068 *	40	18.40	-	20.00	40.0 x 16.0	TSOP I	OT
IC191-0402-002 *-*	40	18.40	-	20.00	18.0 x 40.0	TSOP I	OT
IC51-0402-1174-1	40	18.40	19.30	20.00	18.0 x 44.0	TSOP I	CL/FB
IC51-0402-1557	40	12.00	13.40	14.00	20.0 x 44.0	TSOP I	CL/FB
IC189-0482-066 *	48	16.40	-	18.00	36.0 x 20.0	TSOP I	OT
IC189-0482-077 *	48	18.40	-	20.00	40.0 x 18.0	TSOP I	OT
IC189-0482-094 *	48	6.10	-	8.10	28.1 x 18.2	SOP	OT
IC191-0482-004 *-*	48	18.40	-	20.00	40.0 x 20.0	TSOP I	OT
IC51-0482-1099	48	16.40	17.60	18.00	20.0 x 44.0	TSOP I	CL/FB
IC51-0482-1513	48	6.10	7.20	8.10	22.0 x 38.0	SOP	CL/FB
IC51-0482-2018	48	18.40	19.15	20.00	20.0 x 44.0	TSOP I	CL/FB
IC53-0502-912	50	4.40	-	6.40	24.3 x 34.0	SOP	NO LID
IC189-0562-067 *	56	18.40	-	20.00	40.0 x 20.0	TSOP I	OT
IC191-0562-003 *	56	18.40	-	20.00	21.5 x 40.0	TSOP I	OT
IC51-0562-1514	56	6.10	7.20	8.10	29.0 x 38.0	SOP	CL/FB
IC53-0642-911	64	6.10	-	8.10	30.0 x 34.0	SOP	NO LID

CONTACT STYLES

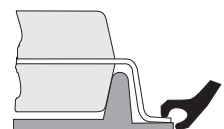
SERIES IC51



SERIES IC189 / IC191

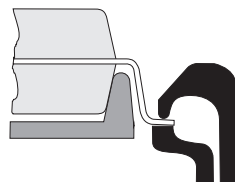


SERIES IC235

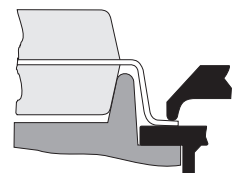


SPECIALITIES

SERIES IC (KELVIN)



SERIES IC (TWO POINT CONTACT)



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