

Specifications

Insulation Resistance: 1,000M Ω min. at 100V DC, pitch 0.5
 1,000M Ω min. at 500V DC, pitch 0.65, 0.8, 1.27

Dielec. Withstd. Voltage: for 1 minute at 100 V AC, pitch 0.5
 for 1 minute at 500 V AC, pitch 0.65
 for 1 minute at 700 V AC, pitch 0.8, 1.27

Contact Resistance: 30m Ω max. at 10mA/20mV max.

Operating Temp. Range: -40°C to +150°C

Contact Force: 20g min. per pin at minimum displacement of 0.3mm
 80g max. per pin at maximum displacement of 0.7mm

Materials and Finish

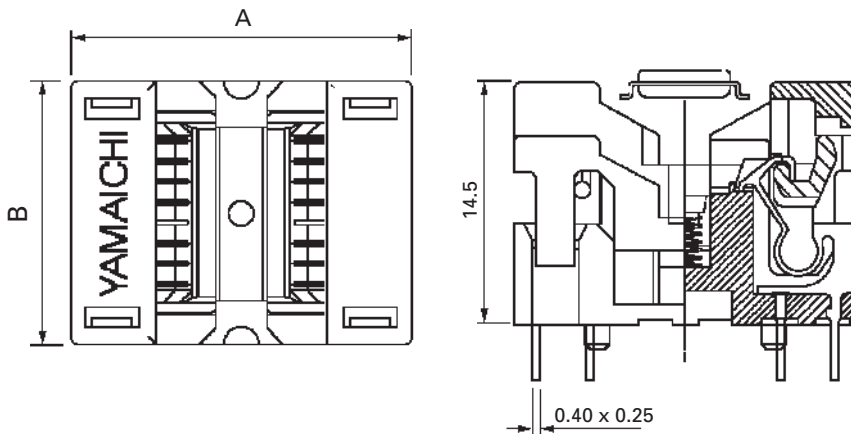
Housing: Polyetherimide (PEI), glass-filled
 Contacts: Beryllium Copper (BeCu)
 Plating: Gold over Nickel

Features

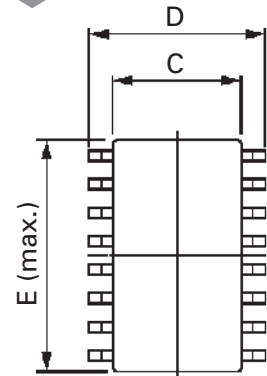
- Open Top low actuation force socket

Applicable Dimensions (Reference Only)

Outline Socket Dimensions



Outline IC Dimensions



1) Dead bug loading



1) Dead bug loading

Part Number	Package	Pin Count	Pitch	Socket Dimensions		IC Dimensions		
				A	B	C	D	E (max.)
IC189-0162-003 *-*	SOP	16	1.27	20.9	16.1	5.3	7.8	10.35
IC189-0162-019 *-*	SOP	16	1.27	20.8	16.0	5.6	7.7	10.23
IC189-0202-038 *	SSOP	20	0.65	24.0	22.5	6.1	8.1	6.8
IC189-0202-017 *-*	SOP	20	1.27	24.0	22.5	5.6	7.7	12.73
IC189-0242-021 *-*	SOP	24	1.27	24.00	22.5	5.6	7.7	15.33
IC189-0242-040 *	SOP	24	1.27	24.00	22.5	7.15	10.3	15.50
IC189-0282-042 *	SOP	28	1.27	24.00	22.5	7.15	10.30	18.10
IC189-0302-121 *	SSOP	30	0.65	22.00	24.00	6.10	8.10	9.90
IC189-0322-004 *-*	SOP	32	1.27	27.20	26.54	11.40	14.10	21.15
IC189-0322-005 *-*	SOP	32	1.27	27.20	27.5	11.00	14.00	21.50
IC189-0382-037 *	SSOP	38	0.65	24.00	22.5	6.10	8.10	12.50
1) IC189-0402-068 *-2	TSOP I	40	0.5	40.00	16.0	18.40	20.00	10.30
IC189-0402-068 *	TSOP I	40	0.5	40.00	16.0	18.40	20.00	10.30

Part Number (Details)

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

IC189 Series (Open Top)

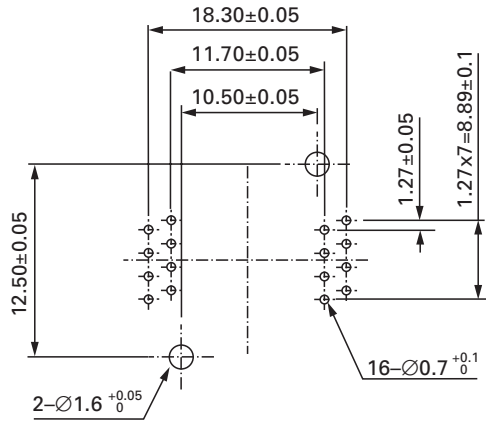
SOP, SSOP, TSOP (Type I and II)

Recommended PCB Layouts (16 to 24 pins)

Top view from socket

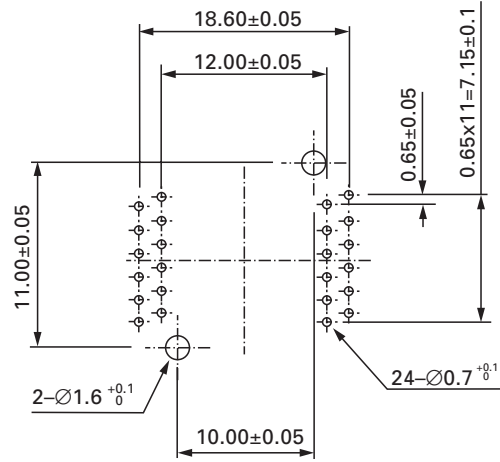
16 pins (SOP)

IC189-0162-003



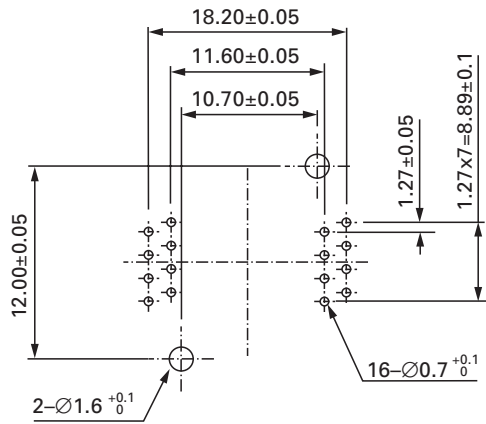
24 pins (SSOP)

IC189-0242-081



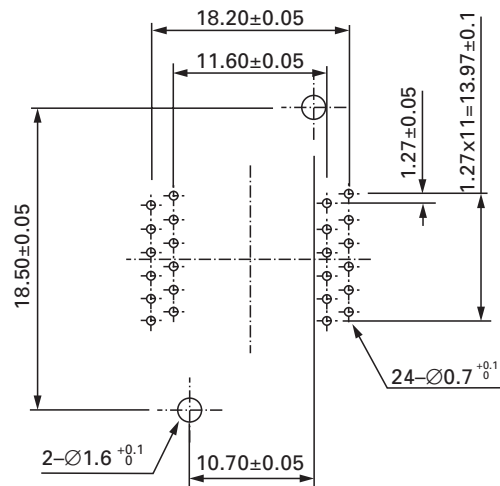
16 pins (SOP)

IC189-0162-019



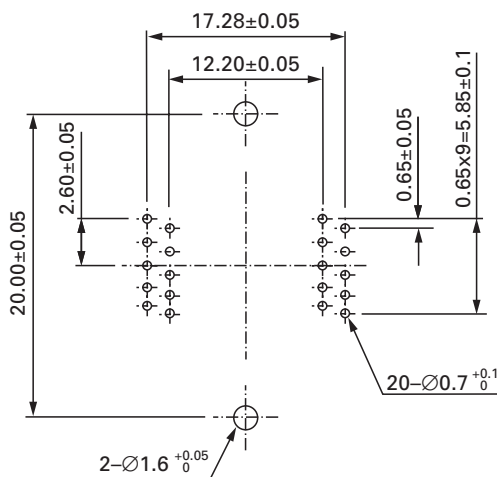
24 pins (SOP)

IC189-0242-021



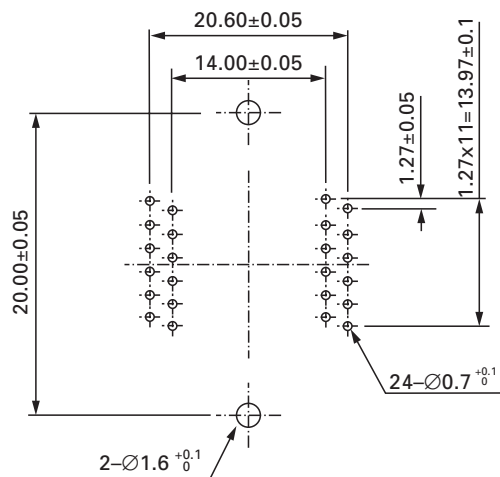
20 pins (SSOP)

IC189-0202-038



24 pins (SOP)

IC189-0242-040



IC189 Series (Open Top)

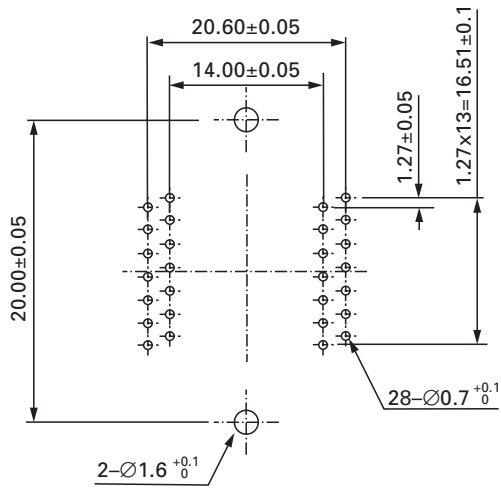
SOP, SSOP, TSOP (Type I and II)

Recommended PCB Layouts (28 to 40 pins)

Top view from socket

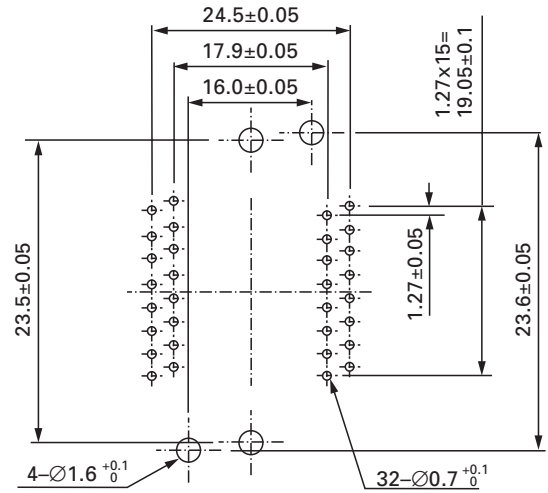
28 pins (SOP)

IC189-0282-042



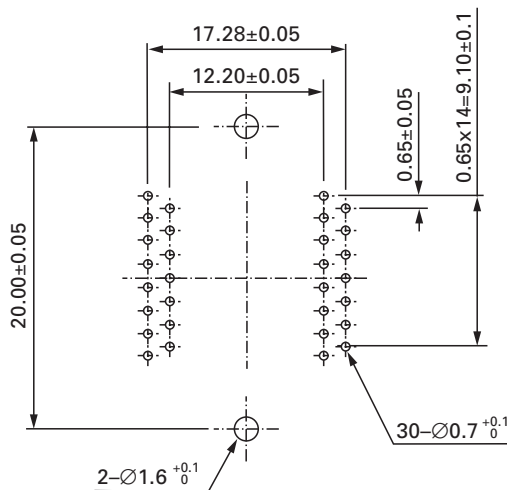
32 pins (SOP)

IC189-0322-005



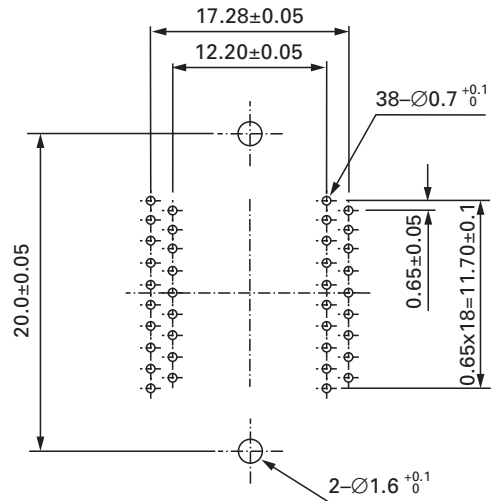
30 pins (SSOP)

IC189-0302-121



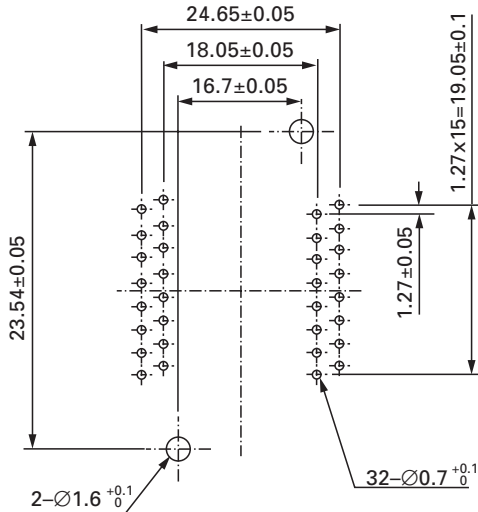
38 pins (SSOP)

IC189-0382-037



32 pins (SOP)

IC189-0322-004



40 pins (TSOP I)

IC189-0402-068-2
IC189-0402-068

