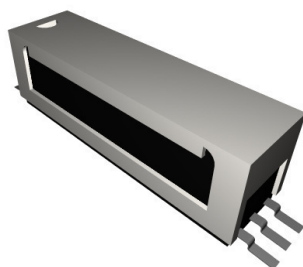


10EH Series

Surface Mount



PRODUCT DESCRIPTIONS

With historically proven reliability, Sanyu 10EH Series 30 Watt SMT relay has been widely accepted by the ATE, telecommunications, and instrument markets.

SPECIFICATIONS



10EH Series		10EH-1A□2G		10EH-2A□2G		
Parameters	Units	1 Form A		2 Form A		Test Conditions
Coil Specifications						
Nominal Coil Voltage	VDC	5.0	12.0	5.0	12.0	±10% @ 20°C @20°C @20°C
Coil Resistance	Ω	160	600	140	600	
Operate Voltage	VDC Max	3.75	8.8	3.75	8.8	
Release Voltage	VDC Min	0.7	1.2	0.7	1.2	
Contact Ratings						
Switching Voltage	Volts	200		200		Max DC/Peak AC resistance
Switching Current	Amps	0.5		0.5		Max DC/Peak AC resistance
Carry Current	Amps	1.3		1.3		Max DC/Peak AC resistance (@30°C)
Contact Rating	Watts	30		30		Max DC/Peak AC resistance
Life Expectancy	x10 ⁶ Cycle	1500		1500		@ 1V 10mA
Contact Resistance	mΩ	150		150		Max initial @ operate voltage
Contact Resistance Stability	mΩ	5.0		5.0		Max initial @ operate voltage
Relay Specifications						
Insulation Resistance	Ω Min	10 ¹¹		10 ¹¹		Between all isolated pins @ 100V 20°C 65%RH
Dielectric Strength(Static)	VDC Min	300		300		Between contacts
	VDC Min	500		500		Contacts to shield
	VDC Min	500		500		Contacts/Shield to coil
Operate Time (Including Bounce)	msec Max	0.5		0.5		@ nominal coil voltage 100 Hz square wave
Release Time	msec Max	0.3		0.5		Diode suppression
Measurement Reference Conditions			Environmental Ratings			
Temp: 15°C to 35°C Humidity: 25% to 75%RH Atmospheric Pressure: 860 to 1060hpa			Storage temp: -40°C to +85°C Operate temp: -20°C to +80°C Vibration: 20G's to 2000Hz Shock: 50G's Processing temp: 260°C max for 60sec. dwell time			

Ordering Code:

10EH-1A□2G

□=1 (5.0VDC), 2 (12.0VDC)

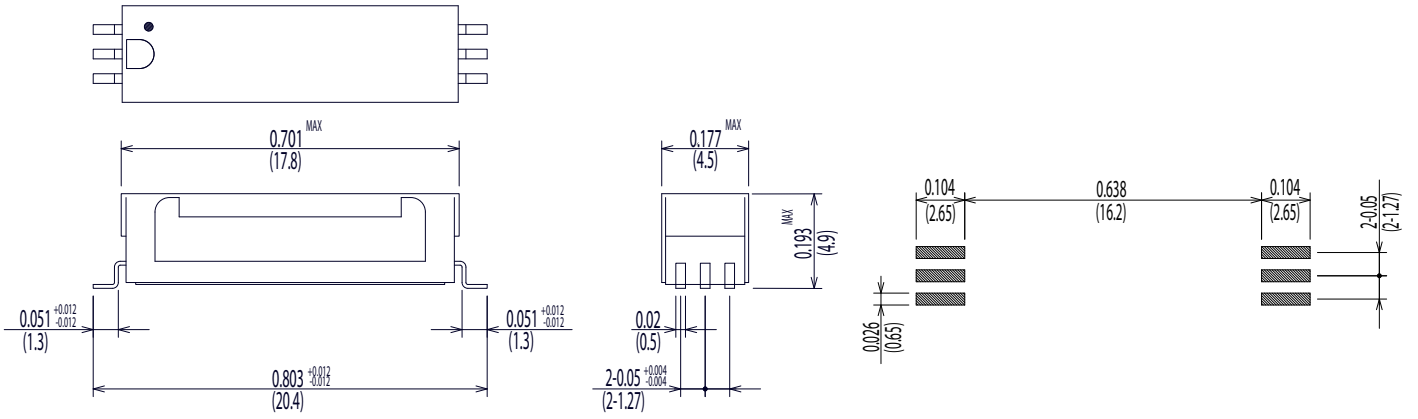
10EH-2A□2G

□=1 (5.0VDC), 2 (12.0VDC)

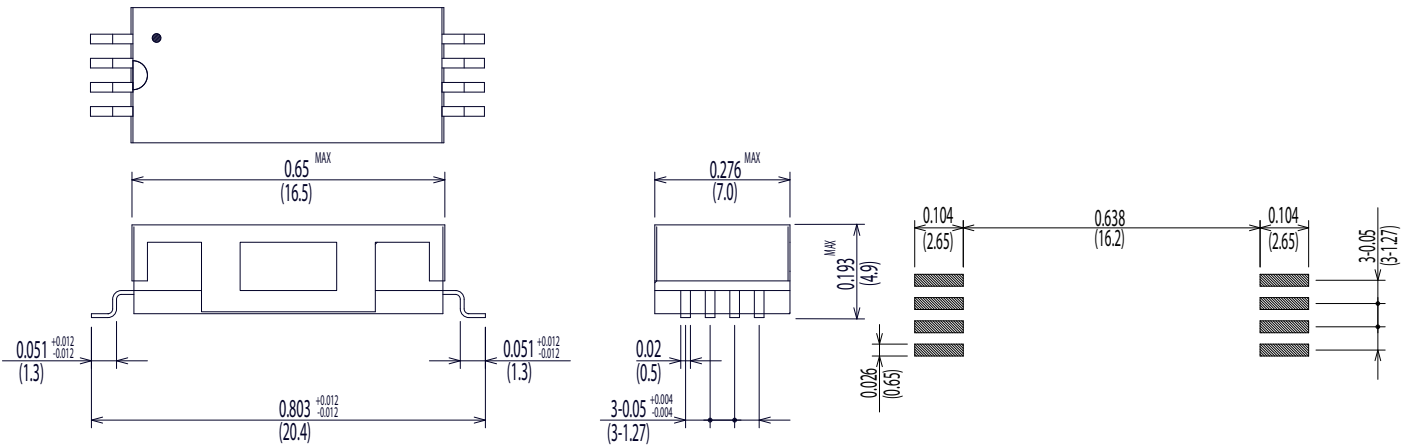
Dimensions All Dimensions are inches (mm)

Land Pattern Recommendation

10EH-1A□2G

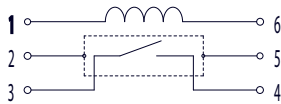


10EH-2A□2G

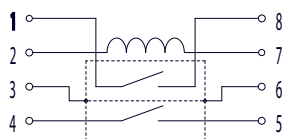


Schematic <Top View>

10EH-1A□2G

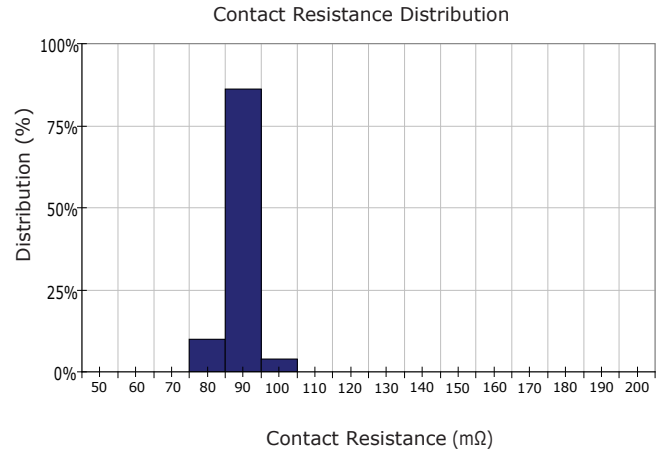
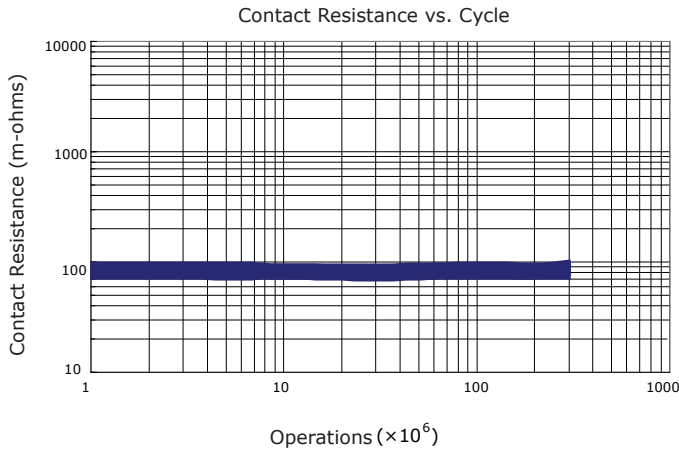


10EH-2A□2G

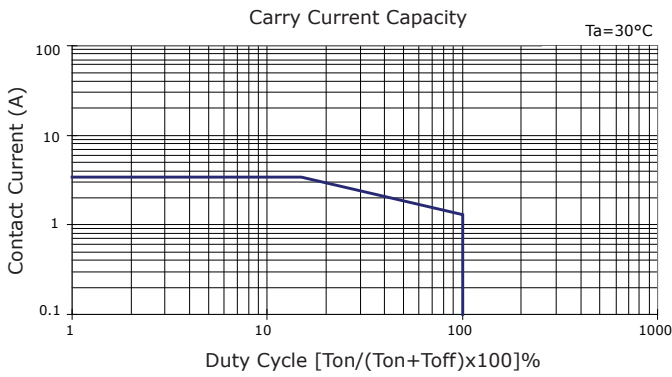


PERFORMANCE DATA

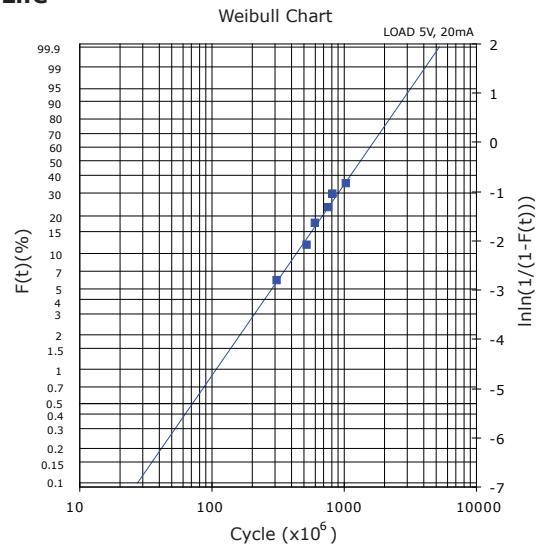
Contact Resistance



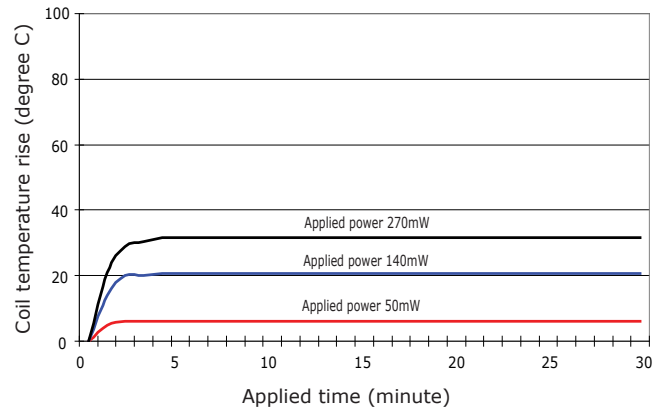
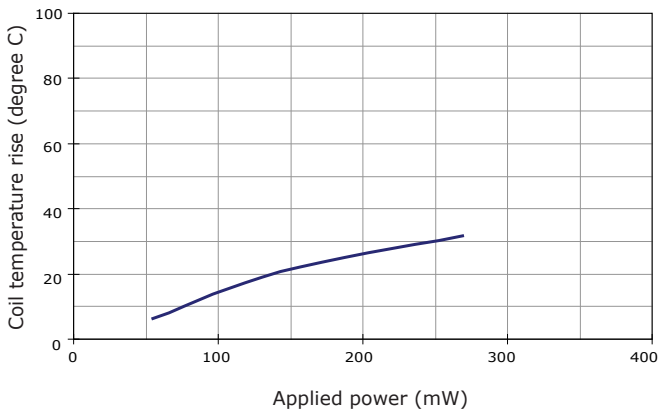
Carry Current



Life

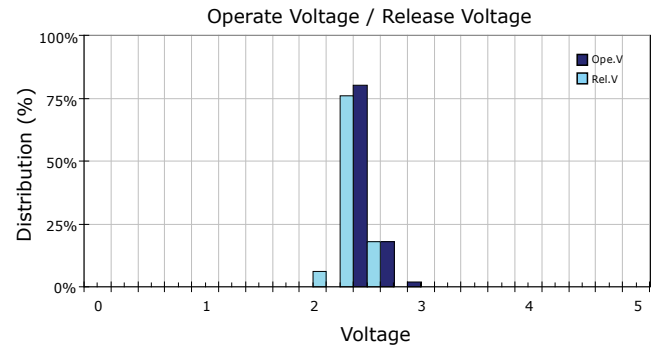
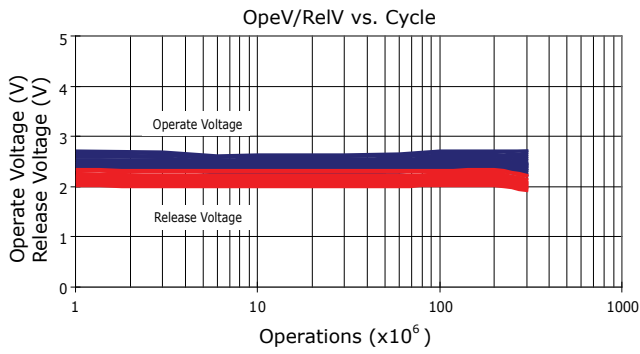
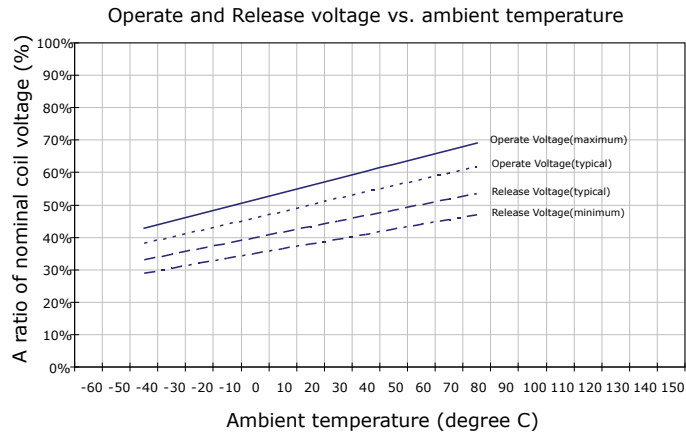


Coil Temperature Rise

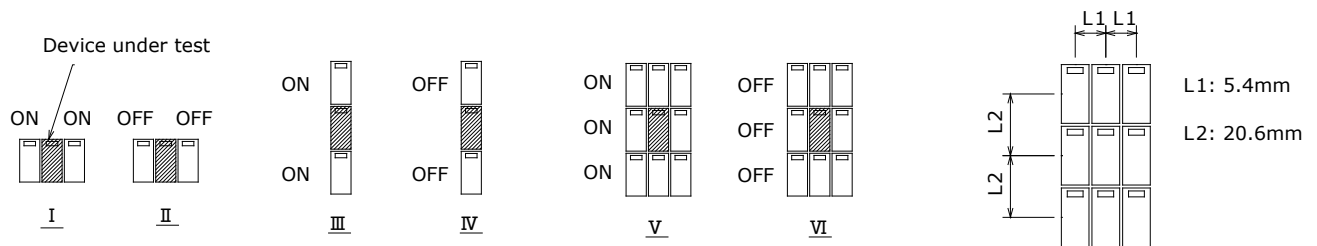
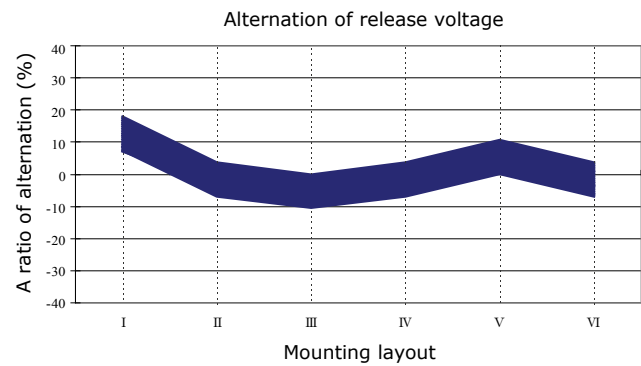
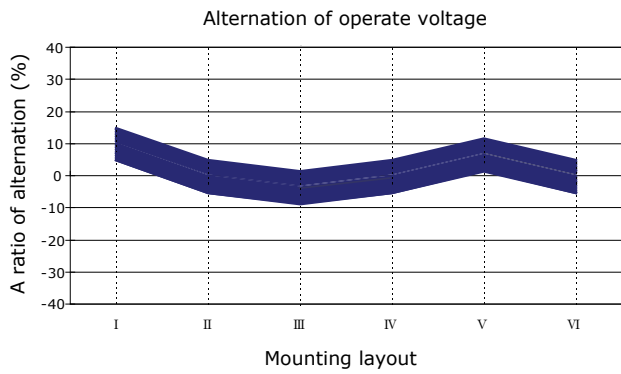


Notes: Reference data of 10EH-1A12G

Operate and Release Voltage

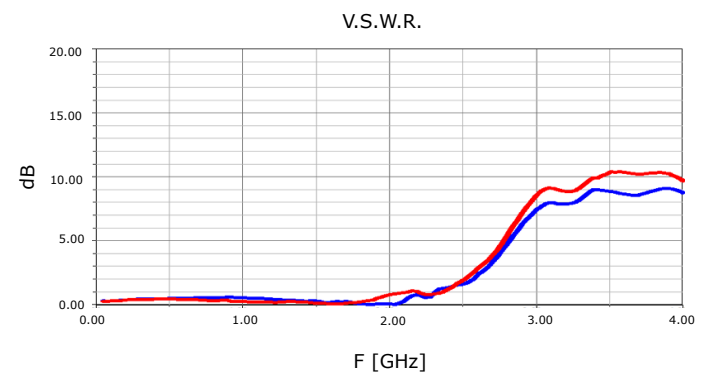
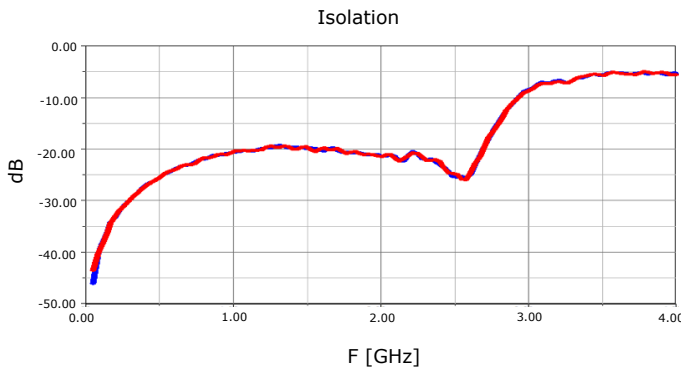
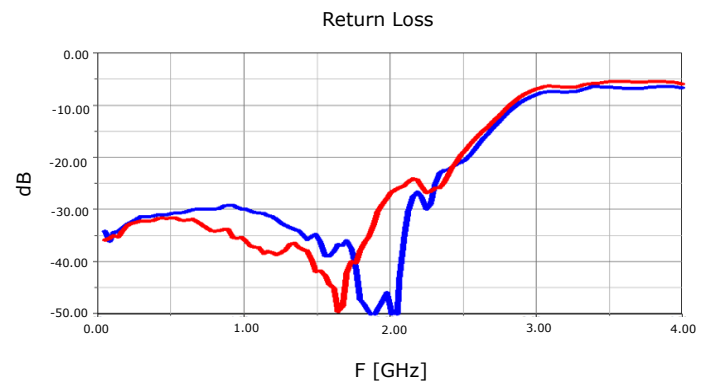


Magnetic Interference



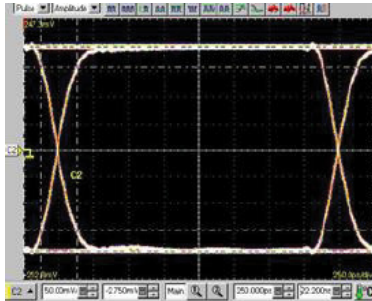
Notes: Reference data of 10EH-1A12G

S-Parameters

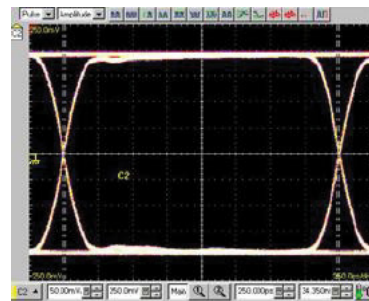


Eye Diagram

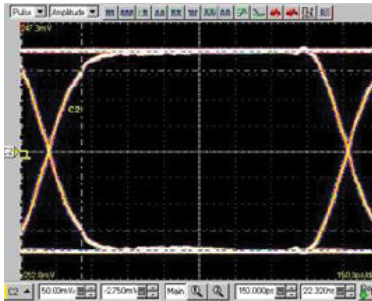
Through Fixture
 Rise Time: ≈ 250 ps, Bit Rate: 500Mb/s
 PRBS (Pseudo Random Bit Sequence): $2^{10}-1$



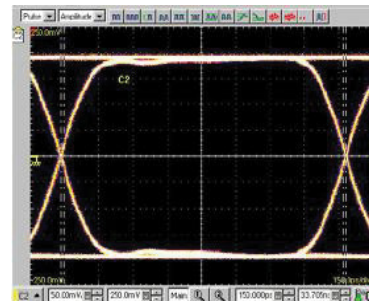
10EH-1A12G with Fixture
 Rise Time: ≈ 250 ps, Bit Rate: 500Mb/s
 PRBS (Pseudo Random Bit Sequence): $2^{10}-1$



Through Fixture
 Rise Time: ≈ 250 ps, Bit Rate: 800Mb/s
 PRBS (Pseudo Random Bit Sequence): $2^{10}-1$

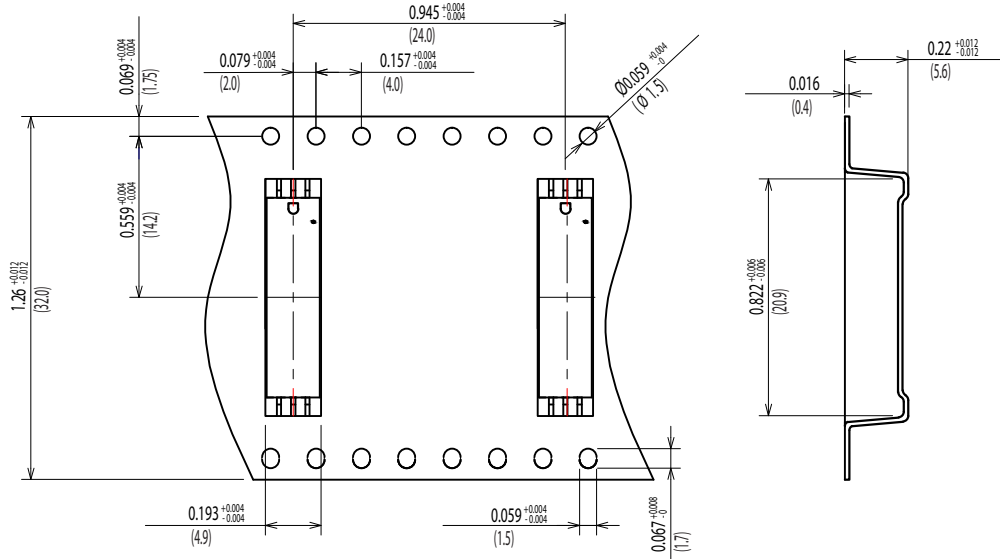


10EH-1A12G with Fixture
 Rise Time: ≈ 250 ps, Bit Rate: 800Mb/s
 PRBS (Pseudo Random Bit Sequence): $2^{10}-1$

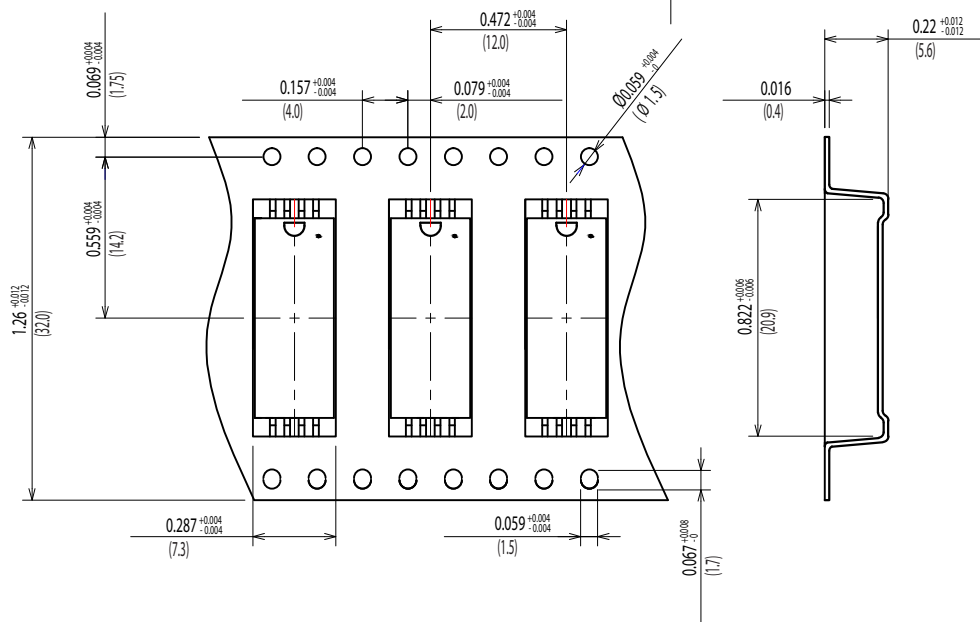


Notes: Reference data of 10EH-1A12G

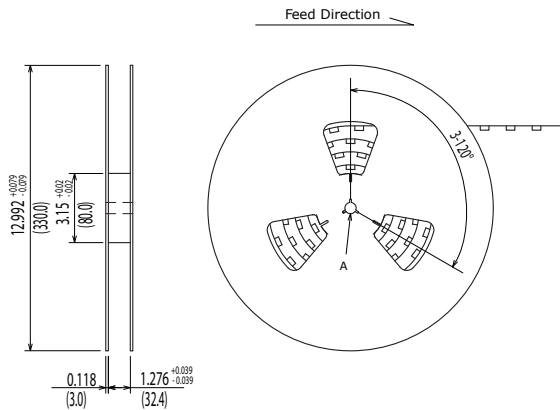
Dimensions of Tape and Reel All Dimensions are inches(mm)



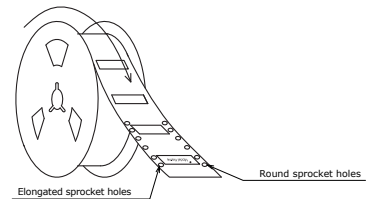
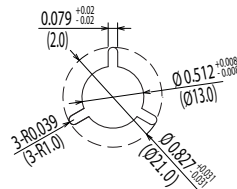
10EH-1A□2G



10EH-2A□2G



Details of the part A



Packing Quantity: 10EH-1A□2G/500pcs, 10EH-2A□2G/1000pcs
 Packing conforms to EIA standard EIA-481-2 or EIA-481-3