

U SERIES REED RELAYS

HIGH FREQUENCY / RF & HIGH DENSITY

**Smallest SMD Reed Relay - RF 8GHz
& J-Lead for Ultra-High Density Assembly**



7.95 x 4.67 x 3.6mm

Size Advantage

- Mini 7.95x4.67x3.6mm
- Advanced miniaturization
- Superior signal integrity
- Enhanced high speed and high frequency performance
- Extended reliability from advanced mfg techniques

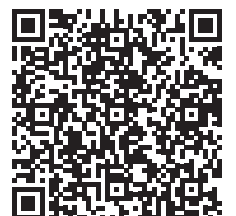
Reed Technology in ATE

- Compact size
- Low power consumption
- High reliability
- Fast switching speed
- Low insertion loss
- High isolation
- Wide bandwidth
- Low contact resistance
- Low capacitance

Sanyu 3U Brand

- Japanese high quality
- Excel in high frequency applications
- Advanced environmental testing
- High end digital oscilloscope with TDR
- S-parameter/BERT with error detection
- 100% tested with ATE
- Design engineering and mfg experts
- ISO 9001:2015

Request a Quote!



www.standexelectronics.com

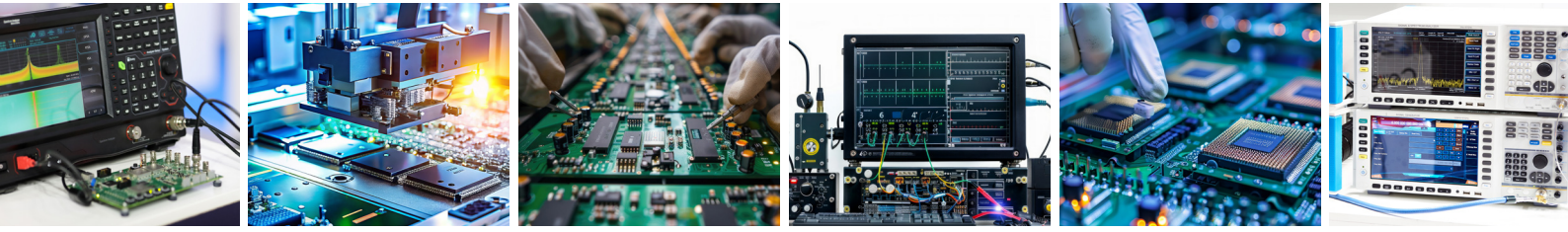
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U SERIES

OPERATING CHARACTERISTICS

Special Feature:

UJ-103RF

UJ-105RF

The smallest SMD reed relay for ultra-high density assembly.
8GHz bandwidth for RF and pulse switching. J-Lead for space efficiency.

COIL SPECIFICATIONS

	UJ-103RF	UJ-105RF	Test Conditions
Coil Voltage VDC:	3.3	5	
Coil Resistance Ω :	90	150	$\pm 10\%$ @ 20°C
Operate Voltage Max. VDC:	2.8	3.75	@ 20°C
Release Voltage Min. VDC:	0.5	0.7	@ 20°C

CONTACT RATINGS

	UJ-103RF	UJ-105RF	Test Conditions
Switching Voltage Volts:	100	100	Max DC/Peak AC resistance
Switching Current Amps:	0.2	0.2	Max DC/Peak AC resistance
Carry Current Amps:	0.2	0.2	Max DC/Peak AC resistance (@ 30°C)
Contact Rating Watts:	3	3	Max DC/Peak AC resistance
Life Expectancy $\times 10^6$ Cycle:	300	300	@ 1V 10mA
Contact Resistance $m\Omega$:	200	200	Max initial @ operate voltage
Contact Resistance Stability $m\Omega$:	5	5	Max initial @ operate voltage

RELAY SPECIFICATIONS

	UJ-103RF	UJ-105RF	Test Conditions
Insulation Resistance Min. Ω :	$>10^{12}$	$>10^{12}$	Between all isolated pins @ 100V 20°C 65%RH
Dielectric Strength Min. VDC: (Static)	150	150	Between contacts
	500	500	Contacts to shield
	500	500	Contacts/shield to coil
Operate Time Max. msec: (Including Bounce)	0.25	0.25	@ nominal coil voltage 100 Hz square wave
Release Time Max. msec:	0.05	0.05	Diode suppression

RF CHARACTERISTICS

	UJ-103RF	UJ-105RF
Insertion Loss -3dB drop off point GHz:	~ 8 GHz	~ 8 GHz

Please note: All technical specifications on this flyer refer to the target product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

**DOWNLOAD THE DATASHEET
TO SEE ALL SPECIFICATIONS
AND RF PARAMETERS**

<https://bit.ly/3DmtK6S>



High RF Wireless // High Density // Automated Test Equipment // Fast Pulse Switching // VLSI Testers
Functional PCB Test Systems // Data Acquisition // Telecomm // ATE Signal & PCB Testers // IC Wafer Testing

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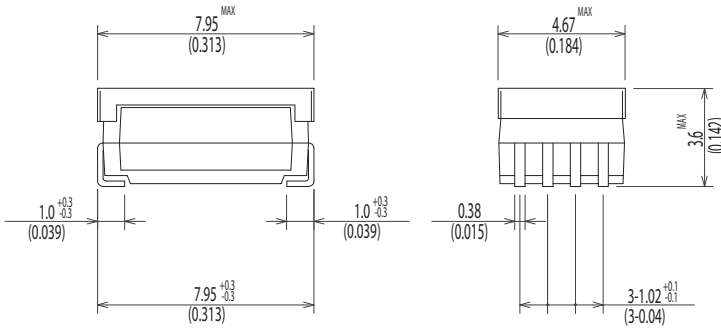
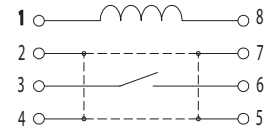
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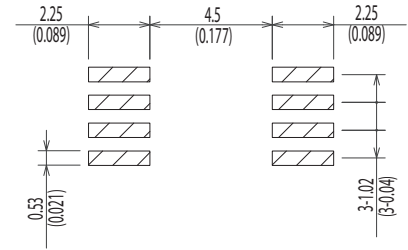
UJ-103RF/UJ-105RF



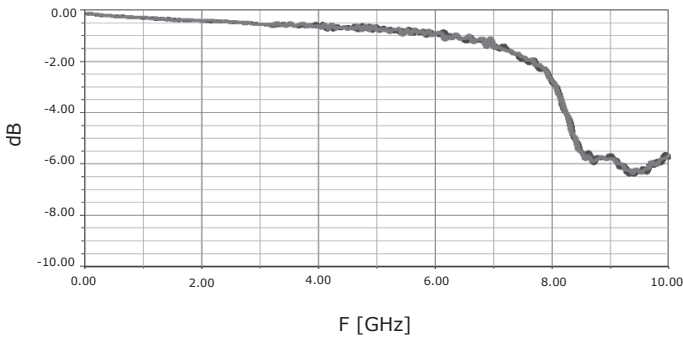
Schematic <Top View>



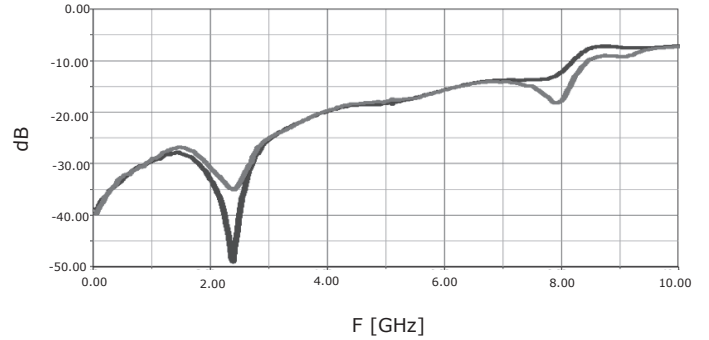
Land Pattern Recommendation



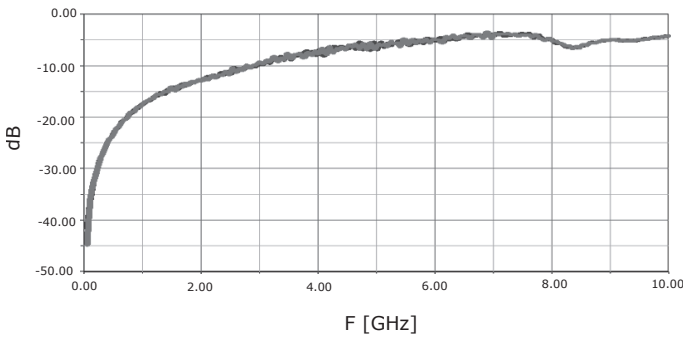
Insertion Loss



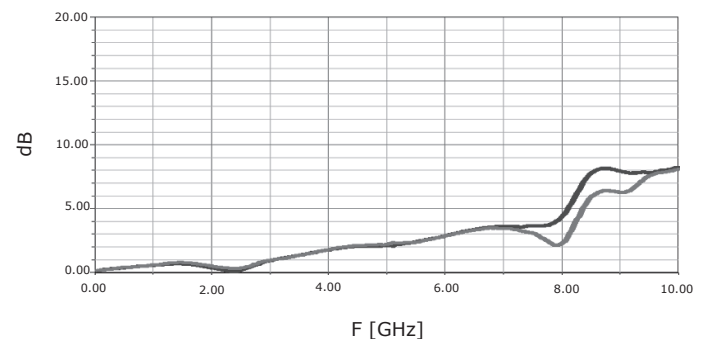
Return Loss



Isolation



V.S.W.R.



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