



RS stock numbers : 712-7553, 712-7562, 712-7565

2 Series

Miniature Screened 0.5A, 1.5kV



cynergy3 components™



A sub-miniature package relay for RF applications in the 1-30MHz band. The use of vacuum reed switches with ruthenium contacts offers high isolation voltages, low contact resistance and long operating lifetime. Additional RF screening is available to further enhance the RF performance for more demanding applications.

All connections are via PCB.

- 0.5A RF at 1-30MHz
- 1.5kV isolation
- Long operating life
- 1" package
- Custom versions available

RS Stock No.			712-7553	712-7562	712-7565
Cynergy3 Part			TAR212SM	TBR212SM	TLR212SM
Contact	Conditions	Units	N/O	N/C	Latch
Contact Material			*Ruthenium	*Ruthenium	*Ruthenium
Carry Current	DC or AC rms max	A	1.0	1.0	1.0
Switching Current	DC or AC rms max	A	0.5	0.5	0.5
Switching Power	DC max	VA	10	10	10
Switching Voltage	DC or AC peak	V	300	300	300
Isolation across contacts	DC or AC peak	kV	1.5	1.5	1.5
Isolation contact to coil	DC or AC peak	kV	1.5	1.5	1.5
Capacitance across contacts	coil to screen ground	pF	<0.4	<0.4	<0.4
Lifetime	dry switching	cycles	10 ⁹	10 ⁹	10 ⁹
	10W switching	cycles	10 ⁸	10 ⁸	10 ⁸

Coil Characteristics					
Operate Voltage	Nominal	Vdc	12	12	12
	Must Operate	Vdc	8	8	7
	Must Release	Vdc	2	2	N/A
Pulse length	Min for Latch	ms	N/A	N/A	4.0
Operate Time	Max	ms	1.0	1.0	1.0
Release Time	Max (diode fitted)	ms	0.5	0.5	0.5
Resistance	Nominal @20°C	Ohms	200	900	1530

Environmental					
Operating Temperature	Range	°C		-40 to +100	
Storage Temperature	Range	OC		-40 to +125	
Mass	Typical	gm	20	20	22

* Ruthenium Oxide over Rhodium

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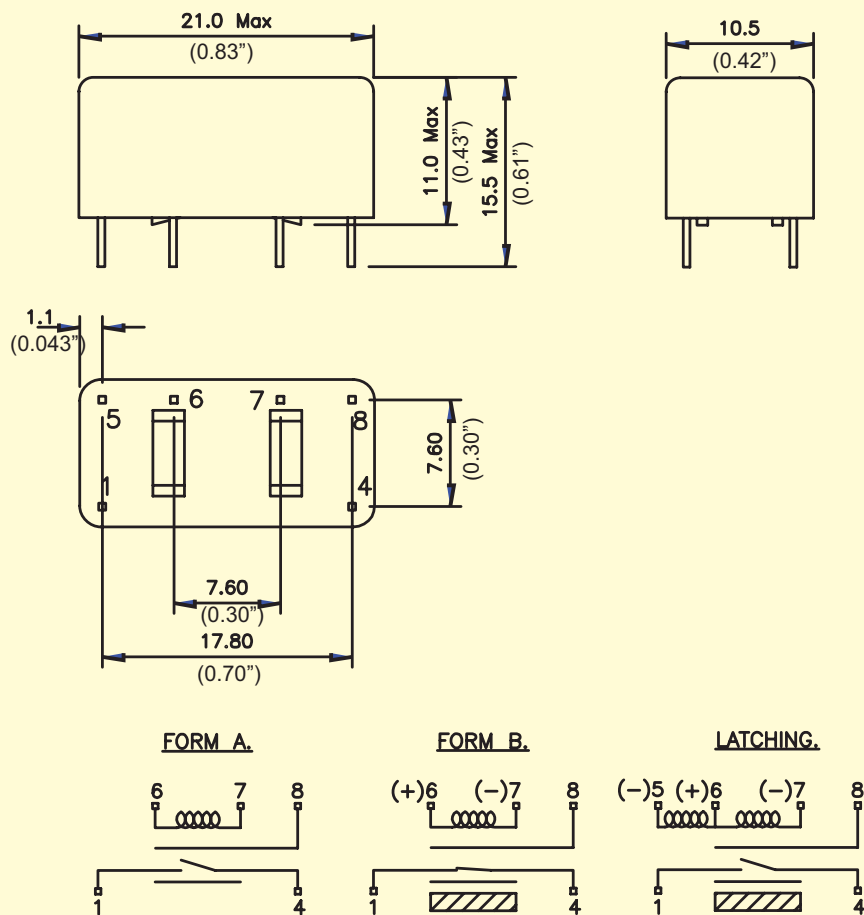
ISO 9001CERTIFIED

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Part Numbering system	T	A	R	2	12	S	M
Reed Switch Size: T							
Contact Form A: SPNO, B: SPNC, L: Latching							
Contact Material R: Ruthenium over Rhodium							
Relay Series Number							
Coil Voltage 5: 5Vdc, 12: 12Vdc, 24: 24Vdc							
RF Screening S: Screened, N: Unscreened							
Magnetic Screen M: Fitted, N: None							

See website for application notes and latest data

Mechanical Diagram



Circuit diagrams viewed from the underside