



TELECOMMUNICATION RELAY

ETR ST SERIES

■ FEATURES

- Miniature size with lightweight.
- Low power consumption with various types of coil sensitivity for design flexibility.
- Plastic sealed type available for washing protective.
- Wide operation coil voltage range.
- Comply with RoHS and REACH regulations.

■ SAFETY STANDARD

UL&CUL E141060 UL 508

Model	Load	Cycles
ST	NO/NC	
	2A, 120Vac, 85°C, Resistive	100K
	2A, 24Vdc, 85°C, L/R=0	30K

■ SPECIFICATIONS(AT INITIAL VALUE)

Contact Resistance	100 mΩ Max. @100mA,6VDC
Operate Time	5 mSec. Max.
Release Time	3 mSec. Max.
Dielectric Strength	Between Coil & Contact: 1,000VAC at 50/60Hz for one minute Between Contacts: 400VAC at 50/60Hz for one minute
Surge Strength	1,500V (between coil &contact 1.2x50μSec.)
Insulation Resistance	100MΩ Min. at 500VDC
Max. On/OFF Switching	Electrical: 30 Cycles per Minute Mechanical: 300 Cycles per Minute
Temperature Range	-30°C~+85°C
Humidity Range	35~85%RH
Coil Temperature Rise	ST-D1: 40°C Max. ST-T1: 35°C Max. ST-L1: 30°C Max.
Vibration	Destruction: 10 to 55 to 10 Hz, 0.75 mm single amplitude(1.5mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.75 mm single amplitude(1.5mm double amplitude)
Shock	Destruction: 1,000 m/s ² Malfunction: 100 m/s ²
Mechanical Life	10 ⁷ operations at no load condition.
Weight	About 2g

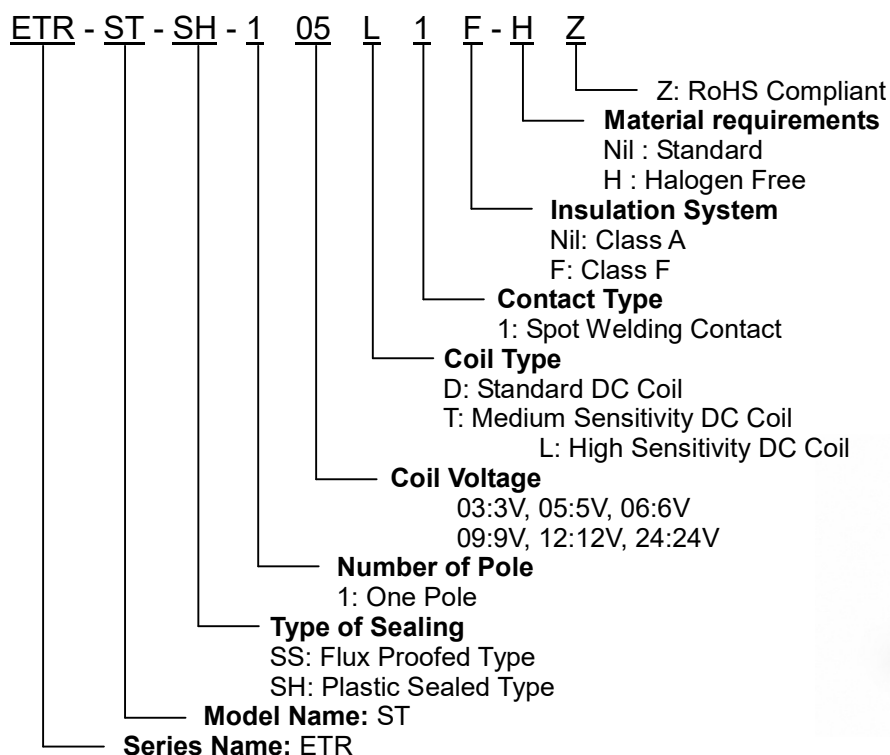


**Rely on ECE's Relays,
and You Always Relax!**

■ COIL SPECIFICATION AT 20°C

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max. Allowable Voltage (VDC)
ST-D1	3	120	25	Abt. 0.36	75% Max.	5% Min.	130%
	5	71.4	70				
	6	60	100				
	9	40	225				
	12	30	400				
	24	15	1,600				
ST-T1	3	67	45	Abt. 0.20	75% Max.	5% Min.	130%
	5	40	125				
	6	33.3	180				
	9	22.5	400				
	12	16.7	720				
	24	8.3	2,880				
ST-L1	3	50.0	60	Abt. 0.15	80% Max.	5% Max.	130%
	5	29.9	167				
	6	25.0	240				
	9	16.7	540				
	12	12.5	960				
	24	6.3	3,800				

■ PART NUMBER SYSTEM



***Marking without: "ETR" & "Z".**

■ **DIMENSIONS** ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

