

TELECOMMUNICATION RELAY

ETR GS SERIES

■ FEATURES

- Gold Silver alloy contact good for low switching application.
- 2.54mm terminal pitch employment equivalent to I.C. Terminal.
- Different types of coil sensitivity available to meet user's selection.
- Plastic epoxy resin sealed type for washing procedure.
- Comply with RoHS and REACH regulations.

■ SAFETY STANDARD

UL&CUL E141060 UL 508 (D/T only)

Model	Load (Gold Silver alloy contact)	Cycles
GS	NO/NC:	
	1A, 120Vac, 40°C, Resistive	6K
	2A, 24Vdc, 40°C, L/R=0	6K

NIL (D/T/L)

Model	Load (Gold Silver alloy contact)	Cycles
GS	NO/NC:	
	1A, 120Vac, 85°C, Resistive	20K
	2A, 24Vdc, 85°C, L/R=0	20K

■ SPECIFICATIONS(AT INITIAL VALUE)

Contact Resistance	100 mΩ Max. @100mA, 6VDC
Operate Time	GS-D : 6 mSec. Max. GS-T : 8 mSec. Max. GS-L : 8 mSec. Max.
Release Time	4 mSec. Max.
Dielectric Strength	Between Coil & Contact: 1,000VAC at 50/60Hz for one minute Between Contacts: 500VAC 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: 6 cycles per Minute Mechanical: 300 cycles per Minute
Temperature Range	-40°C~+85°C
Humidity Range	45~85%RH
Coil Temperature Rise	GS-D : 25°C Max. GS-T : 20°C Max. GS-L : 20°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 4.8g



■ 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)
GS-D	3	120	25	Abt. 0.36	75% Max.	10% Min.	150%
	5	71.4	70				
	6	60	100				
	9	40	225				
	12	30	400				
	24	15	1,600				
	48	7.5	6,400				
GS-T	3	66.7	45	Abt. 0.20	75% Max.	10% Min.	150%
	5	40	125				
	6	33.3	180				
	9	22.2	405				
	12	16.7	720				
	24	8.3	2,880				
GS-L	3	50	60	Abt. 0.15	80% Max.	10% Max.	150%
	5	30	167				
	6	25	240				
	9	16.7	540				
	12	12.5	960				
	24	6.25	3,840				

■ PART NUMBER SYSTEM

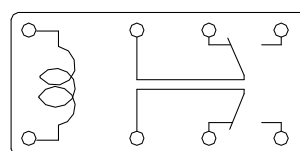
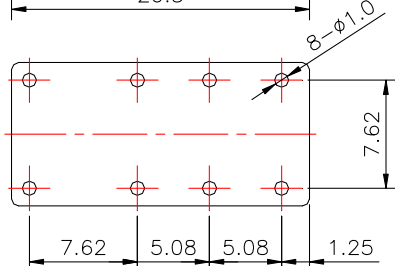
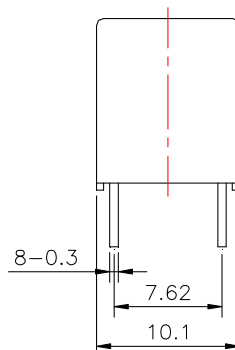
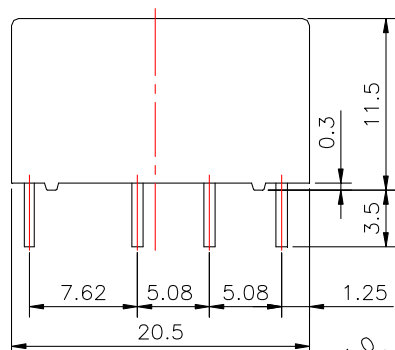
ETR - GS - SH - 2 03 D Z
 Z: RoHS Compliant
Coil Sensitivity
 D: Standard DC Coil
 T: Medium Sensitivity DC Coil
 L: High Sensitivity DC Coil
Coil Voltage
 03: 3V, 05: 5V, 06: 6V, 09: 9V,
 12: 12V, 24: 24V, 48: 48V
Number of Pole
 2: Two Poles
Type of Sealing
 SH: Plastic Sealed Type
Model Name: GS
Series Name: ETR



***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: $+0.1\text{mm}$)

ETR GS-SH



Two Form C

BOTTOM VIEW