

HOME APPLICATION RELAY

ETR GU(Quick Contact TAB) SERIES

■ FEATURES

- GU Single contact Form (SPST) series Relay offers switching capacity by 30A in small size for various kinds of applications.
- PC Board mounting & Quick Contact Terminals available.
- Flanged Cover can be fixed by screw or by snap-in mounting track.
- UL Class F insulation available.
- Comply with RoHS and REACH regulations.

■ SAFETY STANDARD

UL&CUL E141060 UL 508

Model	Load (Ag alloy contact)	Cycles
GU	NO:	
	30A, 240Vac, 40°C, General Use	6K
	30A, 30Vdc, 40°C, L/R=0	6K
	1-1/2 HP, 240Vac, 40°C	1K
	TV-8, 120Vac, 40°C	25K
	NC:	
	20A, 240Vac, 40°C, General Use	6K
	10A, 30Vdc, 40°C, L/R=0	6K
	1/2HP, 240Vac, 40°C	1K

TUV R02057813 IEC61810-1 (12/24DMQ only)

Model	Load (Ag alloy contact)	Cycles
GU	NO: 25A, 250Vac, cosφ=1, 55°C	50K

■ SPECIFICATIONS(AT INITAIL VALUE)

Contact Resistance	100 mΩ Max. @1A, 6VDC
Operate Time	15 mSec. Max.
Release Time	10 mSec. Max.
Dielectric Strength	Between Coil & Contact: 1,500VAC at 50/60Hz for one minute Between Contacts: 1,500VAC at 50/60Hz for one minute
Insulation Resistance	100MΩ Min. at 500VDC
Max. On/OFF Switching	Electrical: 6 cycles per Minute Mechanical: 300 cycles per Minute
Temperature Range	-25°C~+55°C
Humidity Range	45~85%RH
Coil Temperature Range	60°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: 50 m/s ²
Mechanical Life	10 ⁷ operations at no load condition.
Weight	DMF: About 34.0g DMFS: About 34.6g DMQ: About 32.6g

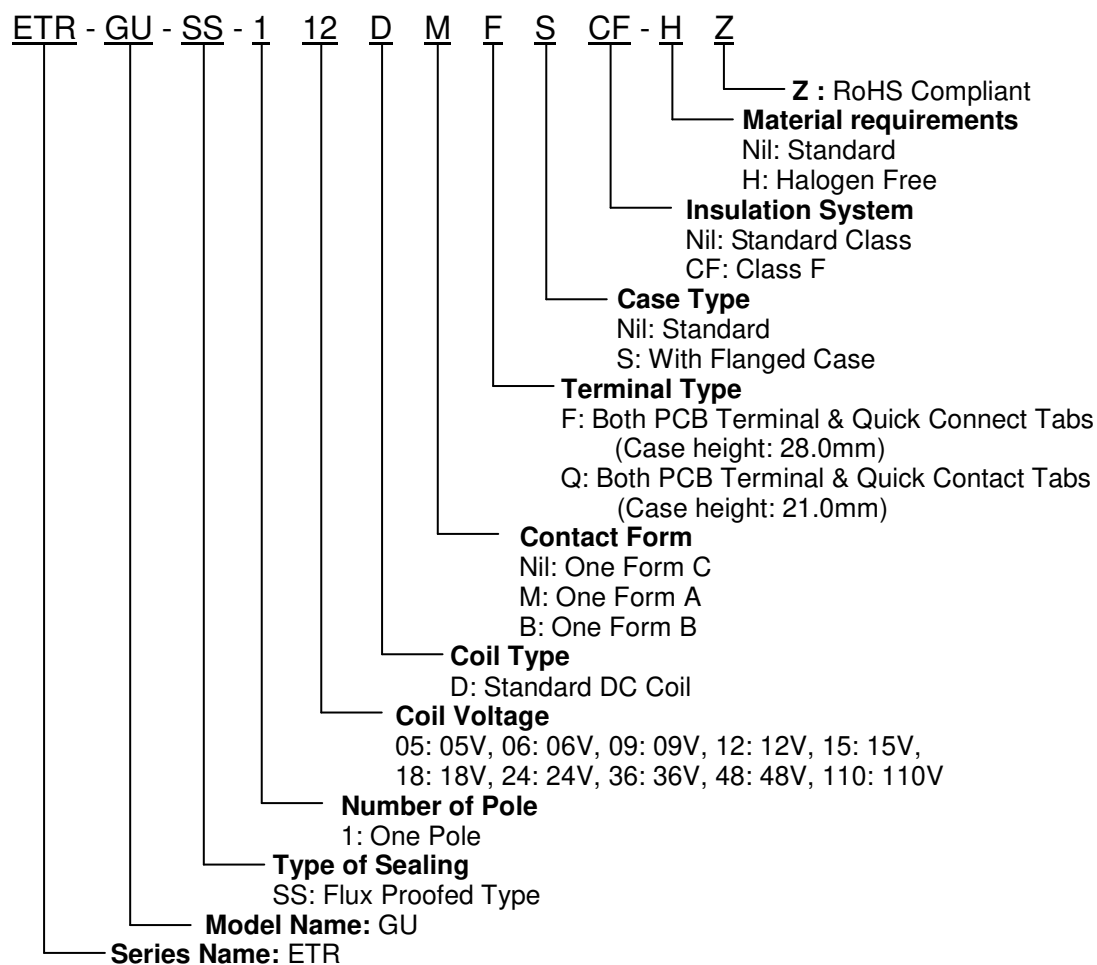


**Rely on ECE's Relays,
and You Always Relax!**

■ 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)
GU	5	185	27	Abt. 0.93	80% Max.	5% Min.	150% (for short time carrying current)
	6	150	40				
	9	93	97				
	12	77	155				
	15	59	255				
	18	47	380				
	24	36	660				
	36	25.8	1,390				
	48	19.4	2,480				
	110	8.5	13,000				

■ PART NUMBER SYSTEM



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

ETR GU-SS-112DF



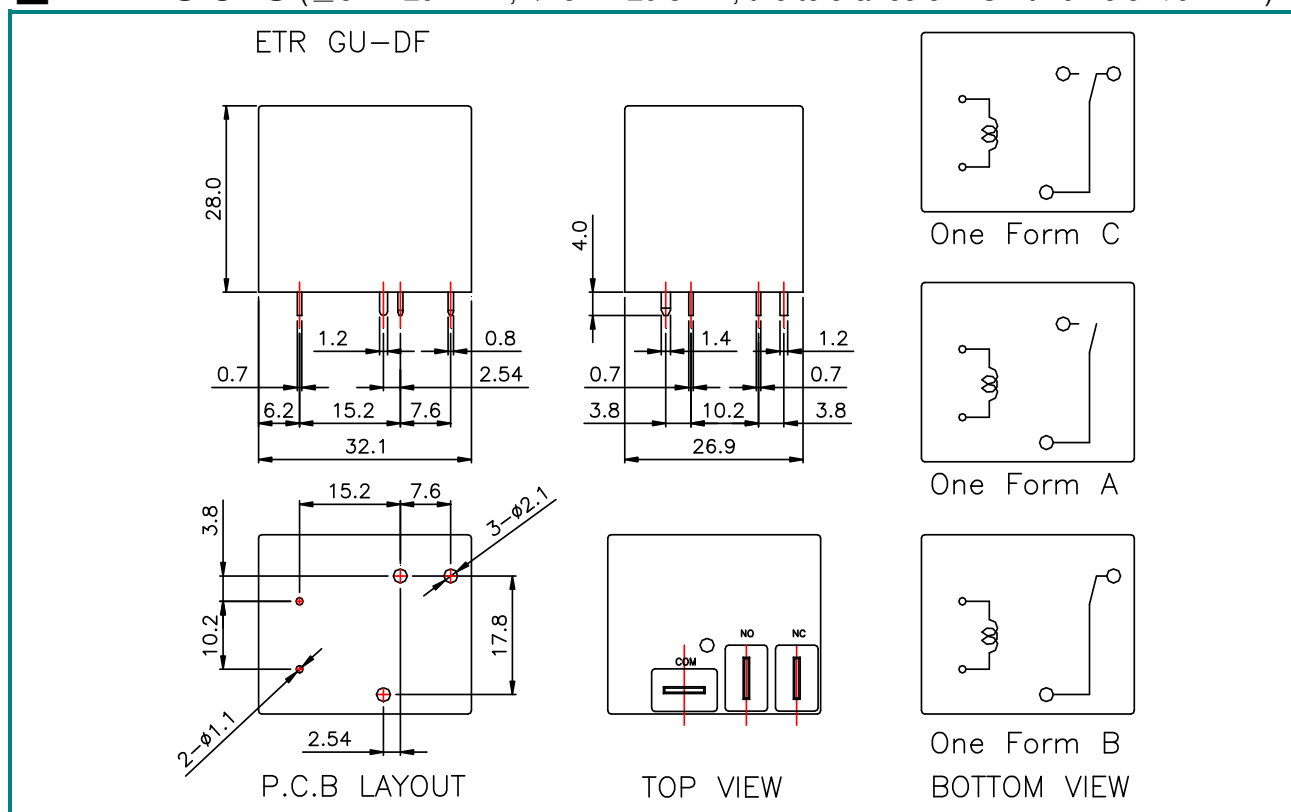
ETR GU-SS-112DQ



ETR GU-SS-112DFS

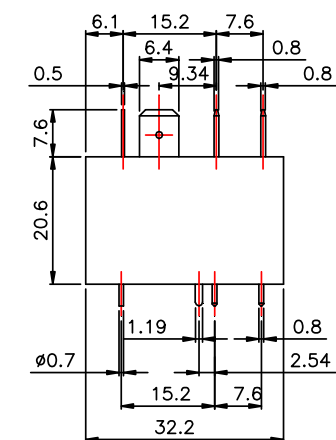


DIMENSIONS ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

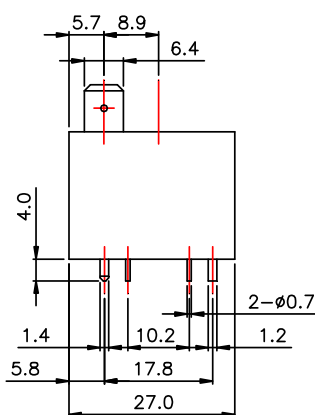




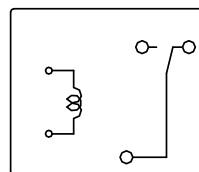
ETR GU-DQ



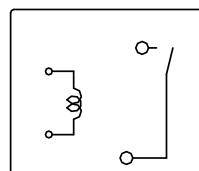
P.C.B LAYOUT



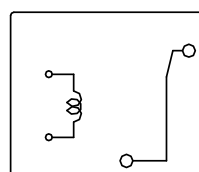
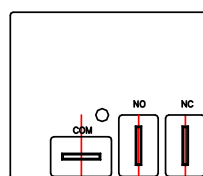
TOP VIEW



One Form C



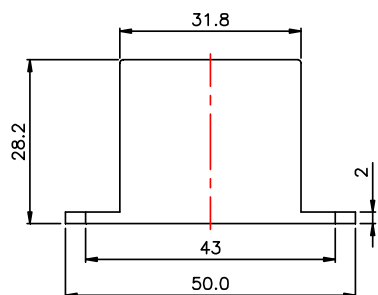
One Form A



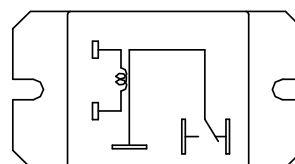
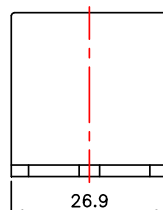
One Form B

BOTTOM VIEW

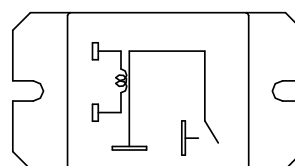
ETR GU-DFS



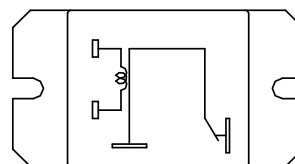
P.C.B LAYOUT
TOP VIEW



One Form C



One Form A



One Form B

BOTTOM VIEW