



- Ultra miniature only 12 x 12.9 x 9.9 mm
- Optimised for DC switching up to 30A
- Twin version available (DG27)
- High temp version for through hole reflow
- RoHS Compliant. IMDS listed

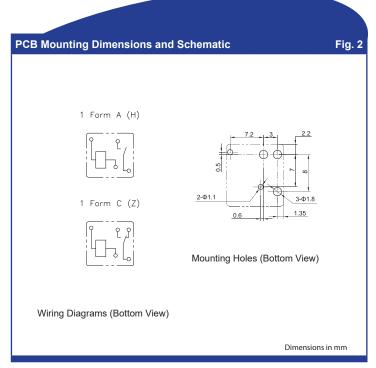
						ROHS Compliant
Contacts					Ordering Code	
Contact arrangement		SPST-NO (1 Form A), SPDT (1 Form C)				
Contact material		AgSnOlnO, AgNi0.15			DG20B-7021-2	2 5 - 1 0 1 2
Max. switching voltage	DC	16V				
		CDCT NO	SPDT		Series	Coil code:
		SPST-NO	NO	NC	Blank: Standard	See table 1
Max. continuous current	DC	30A @12VDC	30A @ 12VDC	25A @ 12VDC	B: High temp.	
Max switching current ² (AgSnOlnO)	make	50A	50A	25A	reflow suitable	
	break	30A	30A	25A	(contact factory)	
Min. switching current / voltage		AgNi0.15: 0.1A, 12VDC / AgSnOlnO: 0.5A, 12VDC				
Initial contact resistance		≤100mΩ, max. at 0.1A, 6VDC			Contact material	
Coil					70: AgSnOInO	
ated voltage DC		10V, 12V			80: AgNi0.15	
Must release voltage		≥0.1 (≥0.125 6VDC coil)				
Operating range		See Table 1			Contact arrangement	
Rated power consumption DC		0.55W - see coil table 1			11: SPDT (1 C/O, 1 Form C)	
Insulation					21: SPST-NO (1 N/O, 1 Form A)	
Insulation resistance		100MΩ at 500VDC, 50%RH				
Dielectric strength coil to contact		500Vrms, 1min			Environmental protection	
General Data					2: Flux free	
Operating time typ.		3ms			3: Fully sealed to IP67 (DG20B	
Release time	typ.	1.5ms			is vented on top of case, but	
Electrical Life ³	ops.	1 x 10 ⁵			flux sealed around terminals.)	
Mechanical life	ops.	1 x 10 ⁷				
Environmental					Mounting & terminations	
Ambient temperature operating		-40 to +105°C			5: PCB Mounting	
storage		-40 to +155°C				
Shock resistance		30g, 6ms				
Vibration resistance		6g, 10Hz-500Hz				
Dimensions	LxWxH	12.9 x 12 x 9.9mm				
Weight	approx.	4g				
Packing		Plastic tube, 25	relays per tube.			





Coil Data Table 7								
Coil code	Nominal voltage (VDC)	Coil Resistance (Ω) ±10%	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Max. allowable overdrive * VDC (23°C)			
1010	10	181	5.7	1.00	22.0			
1012	12	254	6.9	1.20	26.0			
* Above 85°C, maximum allowable voltage should be reduced to 72%								

Overall Dimensions	Fig. 1
2.8 0.4 0.700 12.3±0.1 10.3max	



Notes

- 1: All parameters, unless otherwise specified, are measured at ambient temperature of 23°C.
- 2: Maximum make current refers to inrush current of motor load.
- 3: Electrical life is strongly dependent of switching frequency, On/Off ratio and environmental conditions.

Specifications are subject to change without notice. E&OE