



### Features

- High switching capability: 16A.
- Small size for density PCB mounting.
- Dielectric strength: 5000V.
- Quick connect terminal construction.

### Safety Approval

UL, C-UL File No.: E179745  
VDE File No.: 40002148  
CQC File No.: CQC02001002132

### Contact Capacity

Model	SMT
Nominal switching capacity (res. load)	16A 250VAC
Max. switching current	16A
Max. switching voltage	250VAC
Max. switching power	4,000VA

### Charateristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	50mΩ Max.	
Operate time (at nominal volt.)	20msec. Max.	
Release time (at nominal volt.)	10msec. Max.	
Initial insulation resistance	100MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts: AC1,500V, 50/60Hz 1Min.	
	Between coil and contact: AC4,000V, 50/60Hz 1Min.	
Vibration resistance	Functional	10 ~ 55Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 55Hz at double amplitude of 1.5 mm
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 10,800 ops./h)	10,000,000
	Electrical (at 900 ops./h)	100,000
Ambient temperature	-40°C ~ +105°C (no condensation)	
Unit weight	Single: Approx. 16.0g/Dual: 35.0g	

### Coil Data (at 20°C)

Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Coil resistance ± 10% (Ω)	Max. allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
5	108.69	46	130 % of nominal voltage	75% of nominal voltage	5 % of nominal voltage	Approx. 0.54W
6	88.24	68				
9	77.42	155				
12	33.33	270				
18	30.00	600				
24	21.82	1,100				
48	10.91	4,400				

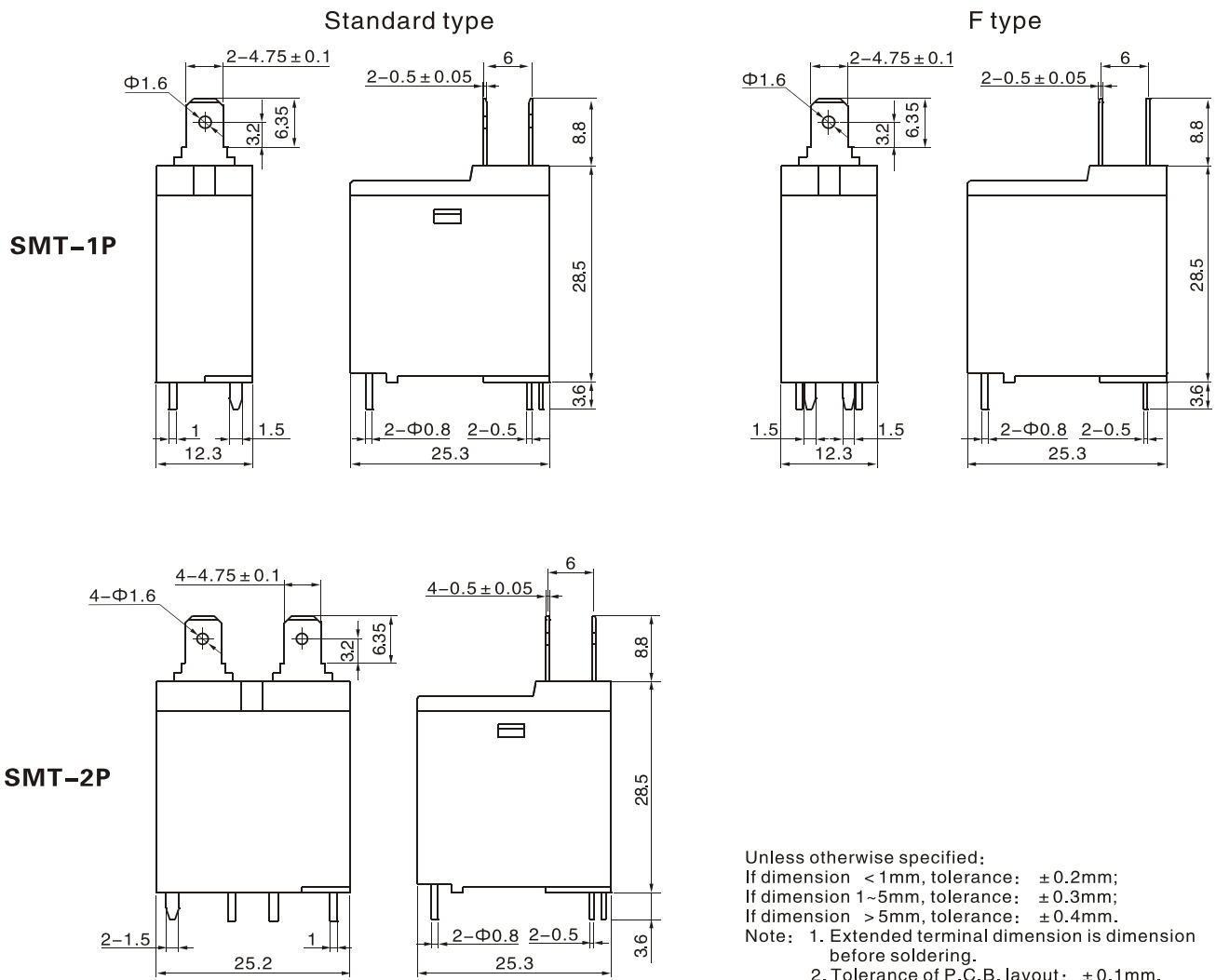
## Safety Approval Ratings

Approval	CQC	VDE	UL/CUL
File No.	CQC02001002132	40002148	E179745
Approved ratings	16A 250VAC	16A 250VAC (1Pole only)	16A 240VAC, Resistive 16A 24VDC, Resistive

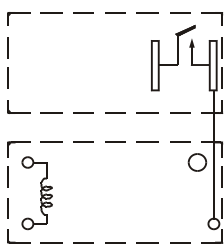
## Ordering Information

Nomenclature	
SMT -1 12 D M X - F -XX	
	Special Parameter: Nil-Standard type, Letter or number-Special requirement
	Insulation System: Nil-Standard, B-Class B, F-Class F
	Terminal Type: Nil-Standard, F-F type, Letter or number-Special requirement
	Contact Form: M-Form A
	Coil Power: D-0.54W
	Coil Voltage (VDC): 05, 06, 09, 12, 18, 24, 48
	Number of Poles: 1-1 Pole, 2-2 Poles
	Type Designation: SMT

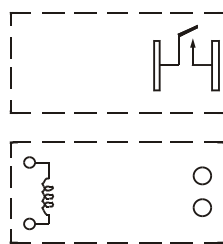
## Outline Dimensions, Wiring Diagram, P.C. Board Layout (unit: mm)



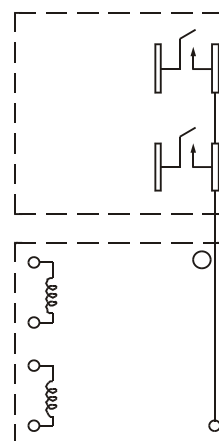
Standard type



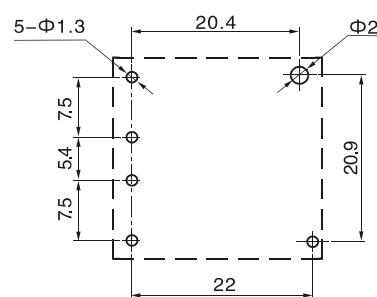
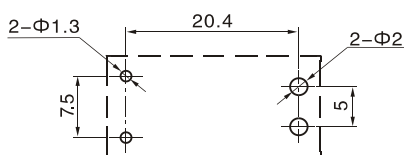
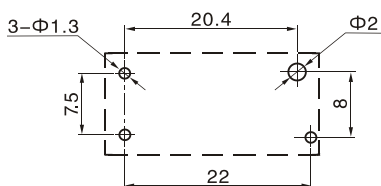
F type



SMT-2P



Wiring Diagram (bottom view)



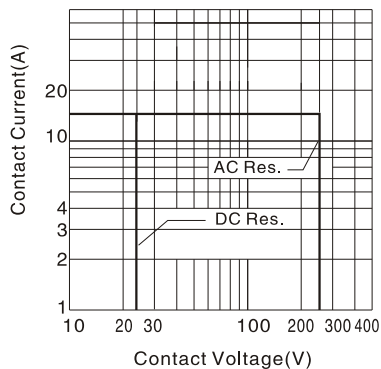
P.C.B. Layout (bottom view)

## Typical Applications

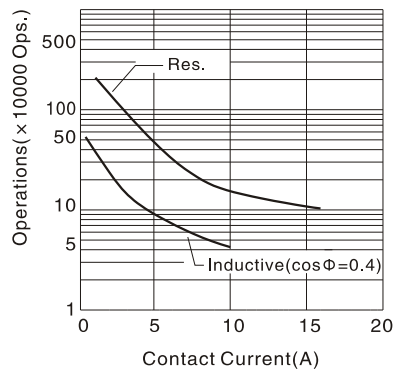
- Home appliances, microwave oven

## Characteristic Curves

Max. Switching Power



Endurance Curve



Coil Temp. Rise

