How To Order:

Series: SQP · NSP · SQM · NSM · SQZ · NSZ · SQH · NSH · SQT

Part No.

<u>SQP</u>	<u>2W</u>	J	<u>10K</u>	<u>B S1</u>
Series	Wattage	Tolerance	Value	Packing
SQP	2W	J=5%	1R=1 ohm	T=Taped
NSP	3W	K=10%	2.3R=2R3	B=Bulk
SQM	5W	M=20%	1K=1000 ohm	
NSM	7W		2.3K=2K3	
SQZ	10W		2.3M=2M3	1
NSZ	15W	·		and the second se
SQH	20W	1		
NSH /			and and and the	
SQT	· · · · · · · · · · · · · · · · · · ·			
NST				

(S1 means special spec. Standard goods is without it.)

Description: Cement Resistor SQP 10K 5% BULK>

Note:

The normal packing of Cement Fixed Resistor is BULK.

If special packing is required, please show out.

Standard Type & Non-Inductive Type SQP SQT SQM SQZ SQH SQF Series

INTRODUCTION

The materials used and the construction techniques ensure excellent flame resistance, are resistance and moisture resistances as well as self-extinguishing capabilities. They will withstand the most rigorous loading test.

As resistors in radio and television receivers, the hazardous conditions of smoking and redheat can be completely prevented by the proper choice of power resistors.

FEATURES

- Small dimension, excellent stability in high temperature, resistant to humidity and shock with economic price.
- Completely insulated character suitable for printed circuit board.
- Precise resistance value with better life proof.
- In high resistance value, the winding core will be replaced by Metal Oxide Film cutting core (RS).
- Super heat dissipation; small linear temperature coefficient.
- Instant overload capability; low noise figure and without annual shift on resistance value.
- Applicable specifications: EIA RS-344 and EIA RC+649.
- Standard tolerance: ±5%.

SQP NSP Series AXIAL LEAD TYPE SQP (STNDARD TYPE) NSP (NON-INDUCTIVE TYPE) FROM 2W TO 20W

FEATURES

- 1. Exceptionally small and sturdy; mechanically safe. Excellent electrical characteristics.
- 2. The materials used and the construction techniques ensure excellent flame resistance, are resistance and moisture resistance as well as self-extinguishing capabilities. They will withstand the most rigorous loading test.
- as resistors in radio and television receivers, the hazardous conditions of smoking and red heat can be completely prevented by the proper choice of power resistors.
- 4. Tolerances of 5% and 10% are standard.
- 5. Applicable specifications: EIA RS-344 and EIA RC-649.



	Dime	nsion	(mm)	Range (OHM)				
Type				Inside Core	Inside Core			
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	L±0.5	W±1	d±0.05	Wire	Metal			
				Wound	Oxide			
2W	18.0	7.0	0.8	0.1R-47R	50R-100K			
3W	22.0	8.0	0.8	0.1R-47R	0.1R-47R			
5W	22.0	10.0	0.8	0.1R-47R	0.1R-47R			
7W	35.0	10.0	0.8	0.1R-990R	1K-50K			
10W	48.0	10.0	0.8	0.1R-990R	1K-50K			
15W	48.0	12.5	0.8	0.1R-990R	1K-20K			
20W	60.0	14.5	0.8	0.1R-990R	1K-20K			

Note: 1. Non-Inductive type up to 50 Ω only.



Derating Curve





Performance

Temperature Coefficient	±300 PPW/℃
Insulation Resistance	>100M Ω
Load Life (1000 hour)	± 5% + 0.05 Ω
Short-Time Overload	± 2% + 0.05Ω
Dielectric Withstanding Volt	± 2% + 0.05Ω
Moisture Resistance	± 5% + 0.05 Ω
Shock and Vibration	± 1% + 0.05 Ω
Effect of Soldering	± 2% + 0.05 Ω

SQM NSM Series RADIAL LEAD TYPE SQM (STANDARD TYPE) NSM (NON-INDUCTIVE TYPE) FROM 2W TO 10W

Features

- Space Saving Stand-Off Type
- Small Size, High Power Capacity
- Tolerance: 5%, 10%
- Completely Unflammable



	Di	imensio	on	Range		
Туре		W±1	S±1	Inside Core	Inside Core	
	HI1.5			Wire Wound	Metal Oxide	
2W	20	11	7	0.1R-47R	50R-100K	
3W	25	12	8	0.1R-47R	50R-100K	
5W	25	13	9	0.1R-47R	50R-100K	
7W	39	13	9	0.1R-990R	1K-50K	
10WS	35	16	12	0.1R-990R	1K-50K	
10W	51	13	9	0.1R-990R	1K-50K	

Note: 1. Special size on request.

2. Non-Inductive type up to 50 Ω only.



Derating Curve



Temperature Rise



Performance

Temperature Coefficient	±300 PPW /°C
Insulation Resistance	>100M Ω
Load Life (1000 hour)	± 5% + 0.05 Ω
Short-Time Overload	± 2% + 0.05Ω
Dielectric Withstanding Volt	± 2% + 0.05Ω
Moisture Resistance	± 5% + 0.05 Ω
Shock and Vibration	± 1% + 0.05 Ω
Effect of Soldering	± 2% + 0.05 Ω

SQZ NSZ Series PCB MOUNTING TYPE SQZ (STANDARD TYPE) NSZ N0N-INDUCTIVE TYPE) FROM 5W TO 20W



Features

- Space Saving Stand-Off Type
- Non-Inductive Type Up to 50 Ω Available
- Completely Inflammable



Dimensions

Power Rating	Range of Res	Dimensions (mm)										
(W)	Inside Core	Inside Core	1 +4 5			014.5	114.14	L12+1	D4			
(**)	Wire Wound Metal Oxide		VVII.5	SI1.5	HIEI	Π2 ± 1	Pi	P2	P3	P4		
5W	0.1-200	201-50K	25 (28)	9.5	9.5	9.5 (15)	24.0	9.5	4.0	2.0	7.5	1.4
7W	0.1-500	501-50K	35.0	9.5	9.5	20.5	24.0	9.5	4.0	2.0	7.5	1.4
10W	0.1-8 <mark>00</mark>	801-50K	48.0	9.5	9.5	32.0	24.0	9.5	4.0	2.0	7.5	1.4
15W	0.1-800	801-150K	48.0	12.5	12.5	32.0	34.5	15.0	7.0	6.0	10.0	2.7
20W	0.5-1K	1K1-150K	63.0	12.5	12.5	45.0	34.5	15.0	7.0	6.0	10.0	2.7

Note: Resistance up to 50 Ω maximum for Non-Inductive type.

Performance

Temperature Coefficient	300 PPM/℃
Insulation Resistance	100M Ω
Load (1000 Hours)	±5% +0.05Ω
Short-Time Overload	±2% +0.05Ω
Dielectric Withstanding Volt	±2% +0.05Ω
Moisture Resistance	±5% +0.05Ω
Shock and Vibration	±1% +0.05Ω
Effect of Soldering	±2% +0.05Ω

Power Derating Curve



SQH NSH Series CLAMP MOUNTING TYPE SQH (STANDARD YTPE) NON (NON-INDUCTIVE) FROM 10W TO 40W

FEATURE

- Low cost
- Small size High power capacity
- Non-Inductive type up to 50 Ω available
- Tolerance: 5%, 10%
- Completely unflammable

DIMENSIONS

Temperature Coefficient	300 PPM/° C
Insulation Resistance	100M Ω
Load (1000 Hours)	±5% +0.05Ω
Short-Time Overload	±2% +0.05Ω
Dielectric Withstanding Volt	±2% +0.05Ω
Moisture Resistance	±5% +0.05Ω
Shock and Vibration	±1% +0.05Ω
Effect of Soldering	±2% +0.05Ω

DIMENSIONS





Power Rating	Range of Res	sistance (Ω)	Dimensions (mm)									
(W)	Inside Core	Inside Core	-	L H W								
(***)	Wire Wound	Metal Oxide	L		vv	3	Π1	Р1	P2	P3	۲4	a
10W	0.1-800	801-50K	48.0	10.5	10.5	33	19.5	11	6	5.8	2.5	3.8
15W	0.1-800	801-150K	48.0	12.5	12.0	33	20.5	11	6	6.5	3.0	3.8
20W	0.1-1K	1K1-150K	48.0	12.5	12.0	48	20.5	11	6	6.5	3.0	3.8
30W	0.5-1K		63.5	19.0	18.0	56	28.0	18	8	10.0	3.0	4.2
40W	1.0-5K		90.0	19.0	18.0	71	28.0	18	8	10.0	3.0	4.2

Note: Resistance up to 50 Ω maximum for Non-Inductive type.

SQT NST Series SQT (STANDARD TYPE) NST (NON-INDUCTIVE) FROM 5W TO 10W

Features

- 1. Exceptionally small and sturdy; mechanically safe. Excellent electrical characteristics.
- 2. The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistance as well withstand the most rigorous loading test.
- 3. Tolerances of 5% and 10% are standard.
- 4. Applicable specifications: EIA RS-344 and EIA RC-649.



	D	imensi	on (mn	Range (ohm)			
Туре	1 +0 5	W+0 E		t+0 5	Inside Core	Inside Core	
	LIU.5	VVIU.5	H10.5	110.5	Wire Wound	Metal Oxide	
5W	22.0	10.0	9.0	1.5	0.1-180	181-50K	
7W	35.0	10.0	9.0	3.0	0.1-430	431-50K	
10W	48.0	10.0	9.0	3.0	0.1-470	471-50K	

Note 1: Non-Inductive type up to 500 only.

Derating Curve



Temperature Rise



Performance

Temperature Coefficient	±300 PPW /℃
Insulation Resistance	> 100M Ω
Load Life (1000 hour)	± 5% + 0.05 Ω
Short-Time Overload	± 2% + 0.05Ω
Dielectric Withstanding Volt	± 2% + 0.05Ω
Moisture Resistance	± 5% + 0.05 Ω
Shock and Vibration	± 1% + 0.05 Ω
Effect of Soldering	± 2% + 0.05 Ω