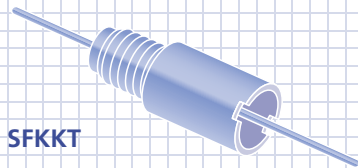
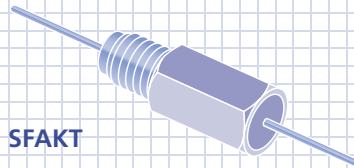


Dimensions



SFKKT



SFAKT

Diameter (O.D.)

4.40mm

Body

11mm

Thread

M3.5 x 0.6 - 6g

Slot

1.0mm wide x 1.0mm deep

Size

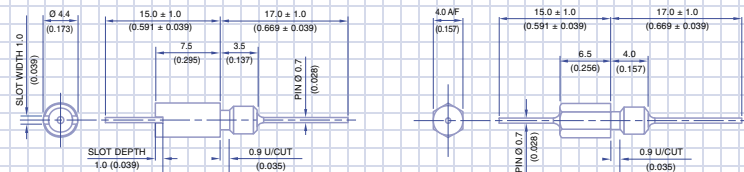
4.0mm A/F

Body

10.5mm

Thread

M3.5 x 0.6 - 6g



Specification

Capacitance Values

COG/NPO

10pF - 330pF

X7R

470pF - 47nF

Electrical

Electrical Configuration

T Filters

Capacitance Measurement

At 1000hr point

Current Rating

10A

Operating Temperature

-55°C to 125°C

Ferrite Inductance, typical

1.0μH

Circuit

T Section



Dielectric Withstand Voltage

Up to 200Vwkg - 2.5xVwkg

500Vwkg - 1.5xVwkg

Insulation Resistance

10 GΩ min tested at

100V.d.c. (V.Wkg. ≥ 100Vd.c.)

V.Wkg. (V.Wkg. ≤ 100Vd.c.)

or 1,000s (time constant), whichever is the less

Mechanical

Material

Body: Silver Plated Brass

Axial Lead: Silver Plated Copper Alloy

Tightening torque (max)

0.35Nm when using nut & washer

0.18Nm into tapped hole



EMI 'T' Filters

SFKKT & SFAKT ranges

Syfer's new range of compact, panel mounted 'T' filters provides EMI protection in a wide range of industry sectors including aerospace, communications and microwave modules. The SFKKT and SFAKT families feature round or hexagonal bodies respectively. These feedthrough EMI filters are smaller than previous 'T' filters, and smaller than competitive devices for equivalent capacitance values. They will particularly suit equipment where panel space is at a premium. The SFKKT versions with round heads suitable for 4.6mm pitching are specifically designed for high density mounting.

Each 'T' filter integrates two inductors and one multilayer discoidal ceramic capacitor, utilising COG or X7R dielectric material. They deliver capacitance values from 10pF to an outstanding 47nF, with a maximum operating voltage of 500Vd.c., up to 6.8nF. No other manufacturer offers such high capacitance for protection against EMI. The high operating voltage, similarly, helps protect circuits from spikes or transients.



Ordering Information

SF	A	K	T	500	0100	Z	C	1
Syfer Filters	Case style A = 4.0mm A/F K = 4.4mm O.D.	Thread K = M3.5	Electrical Configuration T = T Section	Working Voltage 500 = 500Vd.c. 200 = 200Vd.c. 100 = 100Vd.c. 50 = 50Vd.c.	Capacitance Expressed in picofarads (pF)*	Capacitance tolerance Z = ±20%/80% M = ±20%	Dielectric C = COG/NPO X = X7R	Hardware 1 = With hardware 0 = Without hardware

*First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is number of zeros following. Example: 0102=1000pF.

SFKKT and SFAKT ranges

Capacitance ±20% UOS	Working Voltage Vd.c	Material	SFKKT Type Number	SFAKT Type Number	Typical Insertion Loss (dB) No load. 50 ohm system			
					1MHz	10MHz	100MHz	1GHz
10pF -20%/+80%	500	COG	SFKKT5000100ZC0	SFAKT5000100ZC(*)	0	0	0	9
15pF -20%/+80%	500	COG	SFKKT5000150ZC0	SFAKT5000150ZC(*)	0	0	0	11
22pF -20%/+80%	500	COG	SFKKT5000220ZC0	SFAKT5000220ZC(*)	0	0	1	14
33pF -20%/+80%	500	COG	SFKKT5000330ZC0	SFAKT5000330ZC(*)	0	0	2	18
47pF -20%/+80%	500	COG	SFKKT5000470ZC0	SFAKT5000470ZC(*)	0	0	4	20
68pF	500	COG	SFKKT5000680MC0	SFAKT5000680MC(*)	0	0	6	23
100pF	500	COG	SFKKT5000101MC0	SFAKT5000101MC(*)	0	0	9	27
150pF	500	COG	SFKKT5000151MC0	SFAKT5000151MC(*)	0	0	12	30
220pF	500	COG	SFKKT5000221MC0	SFAKT5000221MC(*)	0	0	15	33
330pF	500	COG	SFKKT5000331MC0	SFAKT5000331MC(*)	0	1	19	36
470pF	500	X7R	SFKKT5000471MX0	SFAKT5000471MX(*)	0	2	21	40
680pF	500	X7R	SFKKT5000681MX0	SFAKT5000681MX(*)	0	4	24	43
1.0nF	500	X7R	SFKKT5000102MX0	SFAKT5000102MX(*)	0	7	28	47
1.5nF	500	X7R	SFKKT5000152MX0	SFAKT5000152MX(*)	0	10	30	50
2.2nF	500	X7R	SFKKT5000222MX0	SFAKT5000222MX(*)	0	13	34	53
3.3nF	500	X7R	SFKKT5000332MX0	SFAKT5000332MX(*)	0	17	38	57
4.7nF	500	X7R	SFKKT5000472MX0	SFAKT5000472MX(*)	0	19	40	59
6.8nF	500	X7R	SFKKT5000682MX0	SFAKT5000682MX(*)	1	23	43	63
10nF	200	X7R	SFKKT2000103MX0	SFAKT2000103MX(*)	4	26	45	66
15nF	200	X7R	SFKKT2000153MX0	SFAKT2000153MX(*)	7	29	47	68
22nF	100	X7R	SFKKT1000223MX0	SFAKT1000223MX(*)	10	33	49	70
33nF	50	X7R	SFKKT0500333MX0	SFAKT0500333MX(*)	14	36	50	70
47nF	50	X7R	SFKKT0500473MX0	SFAKT0500473MX(*)	17	39	52	70

(*) Add '1' for mounting hardware / '0' for no hardware.

The SFKKT and SFAKT ranges are fully RoHS compliant.



Syfer Technology Limited
Old Stoke Road, Arminghall, Norwich
Norfolk NR14 8SQ England

Telephone (General): +44 1603 723300
Telephone (Sales): +44 1603 723310
Fax: +44 1603 723301
Email: sales@syfer.co.uk



● Syfer Technology Ltd is a member of the Dover Electronics Ceramic Products Group.