



EMI/RFI Filter

UTC FILTER SELECTION GUIDE

Application:

Filters are used in circuits where both source and load impedance are high. Used on low impedance circuits will significantly reduce the filter's performance. L-section filters are used when the interfering source has a low or varying impedance. The discoidal multi-layer construction completely isolates the input from the output making these filters effective at very high frequencies. Typical applications are communication equipment, measuring and test equipment, microwave repeaters and for RF bypassing to ground.

CASE STYLE		SOLDER IN	4-40 BOLT	6-32 BOLT	8-32 BOLT	12-32 BOLT	1/4 - 28 THREAD	5/16-24 THREAD
DIELECTRIC	WVDC	MAXIMUM CAPACITANCE						
BY NPO COG	50 V	1200 pF	1200 pF	1200 pF	5,600 pF	5,600 pF	.068 uF*	.270 uF*
	100 V	680 pF	680 pF	680 pF	3,300 pF	3,300 pF	.047 uF*	.180 uF*
	200 V	470 pF	470 pF	470 pF	1,800 pF	1,800 pF	.033 uF*	.120 uF*
	500 V	270 pF	270 pF	270 pF	560 pF	560 pF	.010 uF*	.033 uF*
BX X7R	50 V	33,000 pF	33,000 pF	33,000 pF	.120 uF	.120 uF	1.80 uF*	6.80 uF*
	100 V	18,000 pF	18,000 pF	18,000 pF	.068 uF	.068 uF	1.00 uF*	4.70 uF*
	200 V	6,800 pF	6,800 pF	6,800 pF	.033 uF	.033 uF	.68 uF*	3.00 uF*
	500 V	3,300 pF	3,300 pF	3,300 pF	.010 uF	.010 uF	.22 uF*	1.00 uF*

* For PI filter double the capacitance

Contact factory for other variation which include size, capacitance, or other custom configurations.

ORDERING TERMINOLOGY

F G B23 T X7R105 V A



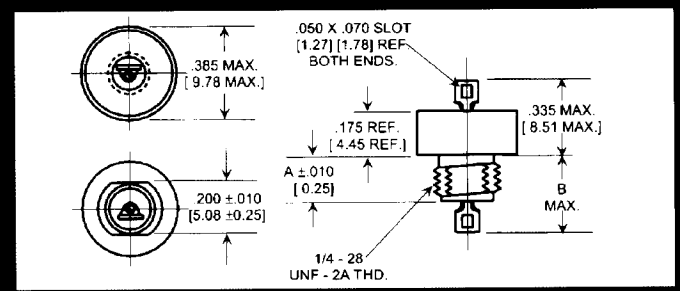
WORKING VOLTAGE	PLATING	TC	TOLERANCE	TEST LEVEL
G 50 Vdc	T TIN	NPO	K +/- 10%	A ELECTRICAL SCREENING
B 100 Vdc	S SILVER	X7R	M +/- 20%	B GROUP A INSPECTION
R 200 Vdc	G GOLD		P +/- 100%-0%	C GROUP B INSPECTION
S 500 Vdc			V GMV	

CASE STYLE

A	SOLDER-IN	.128 DIA. 10	.156 DIA. 11	.200 DIA. 12	.375 DIA. 14
B	4-40 BOLT	.032 DIA. LEAD 21		.040 DIA. LEAD 22	
C	6-32 BOLT	31		32	
D	8-32 BOLT	41		42	
E	12-32 BOLT	51		52	
F	1/4-28 THREAD	.187 THREAD LENGTH 61		.312 THREAD LENGTH 62	
G	5/16-24 THREAD	.312 THREAD LENGTH 70			

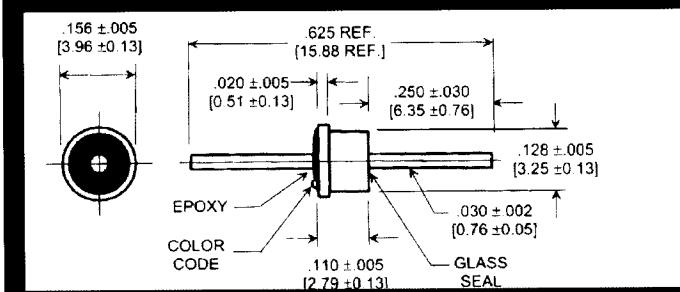
er and Discoidal Ca

L-STYLE BUTTON FILTER 50VDC - 200VDC

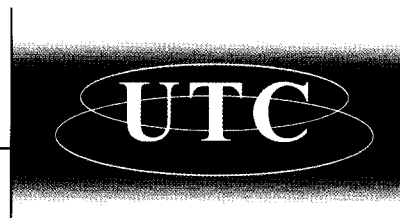


SPECIFICATION												
UTC PART NO.	CASE STYLE	CAP uF	Vdc	CURRENT	PEAK VOLTAGE	Minimum full load insertion loss (dB) Per MIL-STD-220 at indicated temperature						Indicated Temperature
						30 KHZ	150 KHZ	300 KHZ	1 MHZ	10 MHZ	1 GHZ	
FGF61TX7R145VA	1/4 - 28	1.4	50	15	200	15	28	34	44	60	70	25 C
FGF61TX7R145VA	1/4 - 28	1.4	50	15	200	15	28	34	44	60	70	
FBF61TX7R704VA	1/4 - 28	.7	100	15	200	9	22	29	39	55	70	-55 C to +125 C
FBF61TX7R704VA	1/4 - 28	.7	100	15	200	9	22	29	39	55	70	
FRF61TX7R254VA	1/4 - 28	.25	200	10	400	-	15	32	50	70	70	
FSF61TX7R154VA	1/4 - 28	.15	500	10	800	-	11	33	44	54	70	

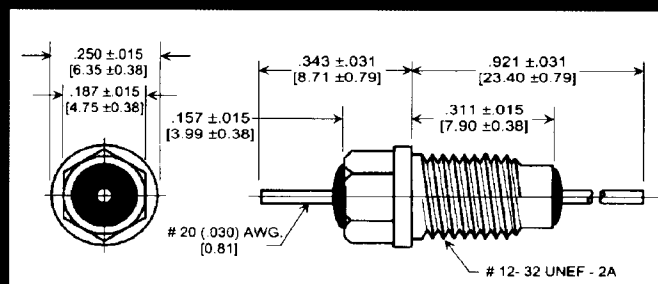
EYLET FEED-THRU FILTER 50VDC - 200VDC



SPECIFICATION												
UTC PART NO.	CASE STYLE	CAP pF	Vdc	CURRENT	PEAK VOLTAGE	Minimum full load insertion loss (dB) Per MIL-STD-220 at indicated temperature						Indicated Temperature
						1MHZ	10MHZ	100MHZ	200MHZ	1GHZ	10GHZ	
FGA10TX7R473VA	SOLDER-IN	47000	50	15	200	16	37	52	60	70	70	25 C
FGA10TX7R273VA	SOLDER-IN	27000	50	15	200	12	32	48	56	70	70	
FGA10TX7R103VA	SOLDER-IN	10000	50	15	200	-	23	42	52	70	70	-55 C to +125 C
FBA10TX7R473VA	SOLDER-IN	47000	100	10	400	-	14	30	38	49	68	
FRA10TX7R472VA	SOLDER-IN	4700	200	10	400	-	-	13	20	32	50	
FRA10TX7R102VA	SOLDER-IN	1000	200	10	400	-	5	21	41	55	60	

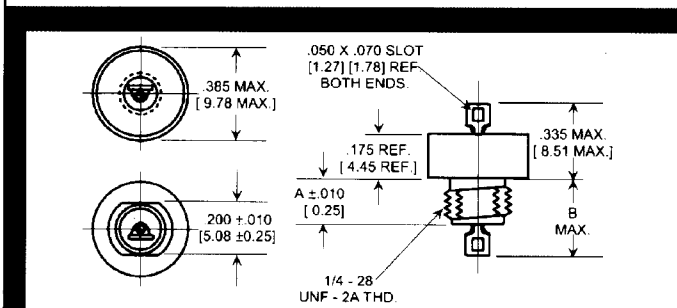


BOLT STYLE FEED-THRU FILTER 50VDC - 200VDC



UTC PART NO.	CASE STYLE	CAP pF	Vdc	CURRENT	Minimum full load insertion loss (dB) Per MIL-STD-220 at indicated temperature				
					10MHZ	100MHZ	200MHZ	1GHZ	10GHZ
FGB21TX7R203VA	4-40	20000	50	15	30	50	56	70	70
FRB21TX7R272VA	4-40	2700	200	15	12	32	38	52	70
FBB21TX7R472VA	4-40	4700	100	10	37	52	60	70	70
FBD31TX7R503VA	8-32	50000	100	10	39	57	63	70	70
FRD31TX7R502VA	8-32	5000	200	15	16	36	38	56	70
FRD31TX7R103VA	8-32	10000	200	15	21	38	40	60	70
FBB21TX7R123VA	4-40	12000	100	15	25	32	45	50	64
FGB21TX7R273VA	4-40	27000	50	10	32	48	56	70	70
FRB21TX7R102VA	4-40	1000	200	10	-	22	28	42	64

PI-STYLE FILTER 50VDC - 200VDC



UTC PART NO.	CASE STYLE	CAP uF	Vdc	CURRENT	Minimum full load insertion loss (dB) Per MIL-STD-220 at indicated temperature					
					30KHZ	150KHZ	300KHZ	1MHZ	10MHZ	1GHZ
FGF61TX7R504VA	1/4-28	.5	50	10	47	70	70	80	80	80
FGF61TX7R105VA	1/4-28	1.0	50	.25	19	59	70	70	80	80
FGF61TX7R205VA	1/4-28	2.0	50	3	15	34	55	70	70	70
FBF61TX7R145VA	1/4-28	1.4	100	10	10	22	25	60	60	70
FRF61TX7R254VA	1/4-28	.25	200	5	-	-	22	56	70	70