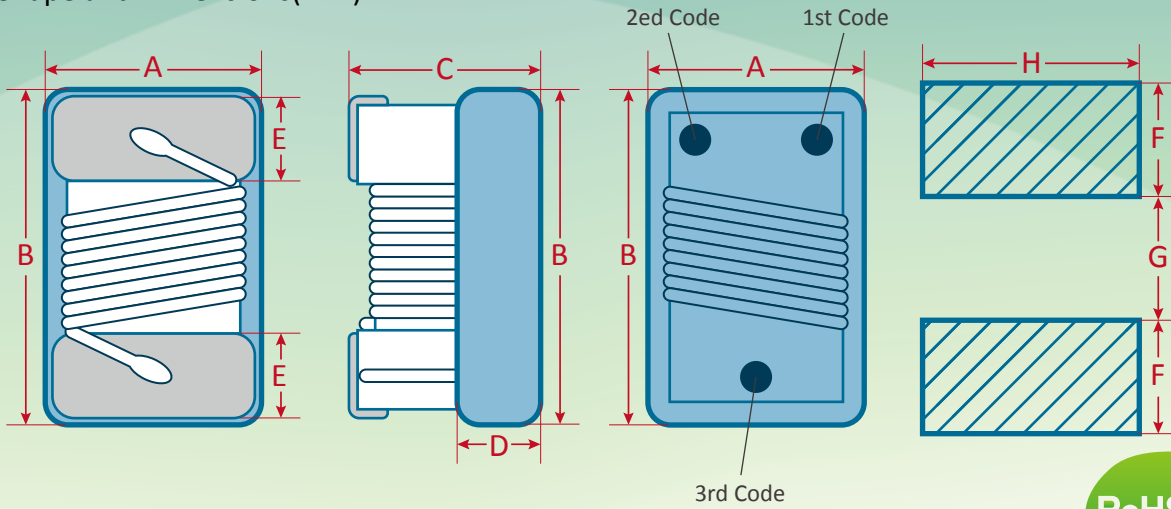


FSR Series

Surface Mountable Type

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
FSR10	2.9 Max.	3.6 Max.	2.5 Max.	1.1 Ref.	0.5±0.1	1.2 Typ.	2.0 Typ.	2.7 Typ.
FSR10-H	2.9 Max.	3.6 Max.	2.5 Max.	1.1 Ref.	0.5±0.1	1.2 Typ.	2.0 Typ.	2.7 Typ.

FSR10



Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)	Idc(A) Max.	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Typ.	1st			2ed	3rd	
FSR10KTR12	0.12	25	40	25	70	1000	2.0	10	Brown	Red	Brown	
FSR10KTR22	0.22	25	40	25	180	600	1.7	10	Red	Red	Brown	
FSR10KTR27	0.27	25	40	25	230	600	1.6	10	Red	Violet	Brown	
FSR10KTR29	0.29	25	40	25	250	550	1.55	10	Red	White	Brown	
FSR10KTR33	0.33	25	40	25	270	500	1.5	10	Orange	Orange	Brown	
FSR10KTR39	0.39	25	40	25	300	500	1.5	10	Orange	White	Brown	
FSR10KTR56	0.56	25	35	25	350	440	1.4	10	Green	Blue	Brown	
FSR10KTR82	0.82	25	35	25	380	340	1.3	10	Gray	Red	Brown	
FSR10KT1R0	1.0	7.9	35	7.9	420	320	1.2	10	Brown	Black	Red	
FSR10KT1R2	1.2	7.9	35	7.9	470	280	1.1	10	Brown	Red	Red	
FSR10KT1R5	1.5	7.9	35	7.9	500	250	1.1	10	Brown	Green	Red	
FSR10KT1R8	1.8	7.9	40	7.9	620	203	1.0	10	Brown	Gray	Red	
FSR10KT2R2	2.2	7.9	33	7.9	650	200	1.0	10	Red	Red	Red	
FSR10KT2R7	2.7	7.9	40	7.9	650	200	1.0	10	Red	Violet	Red	
FSR10KT3R0	3.0	7.9	40	7.9	780	180	0.8	10	Orange	Black	Red	
FSR10KT3R3	3.3	7.9	30	7.9	830	146	1.2	10	Orange	Orange	Red	
FSR10KT3R9	3.9	7.9	30	7.9	1740	139	0.9	10	Orange	White	Red	
FSR10KT4R7	4.7	7.9	35	7.9	1900	124	0.8	10	Yellow	Violet	Red	
FSR10KT5R6	5.6	7.9	30	7.9	2050	114	0.7	10	Green	Blue	Red	
FSR10KT6R8	6.8	7.9	30	7.9	1370	109	0.45	10	Blue	Gray	Red	
FSR10KT8R2	8.2	7.9	30	7.9	1600	90	0.6	10	Gray	Red	Red	
FSR10KT100	10	2.5	23	2.5	1700	90	0.59	10	Brown	Black	Orange	
FSR10KT150	15	2.5	25	2.5	2220	67	0.34	10	Brown	Green	Orange	
FSR10KT180	18	2.5	25	2.5	2420	57	0.33	10	Brown	Gray	Orange	

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)	Idc(A)	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Typ.	Max.	1st		2ed	3rd	
FSR10KT220	22	2.5	25	2.5	2660	48	0.3	10	Red	Red	Orange	
FSR10KT270	27	2.5	25	2.5	2990	38	0.25	10	Red	Violet	Orange	
FSR10KT330	33	2.5	25	2.5	3240	26	0.22	10	Orange	Orange	Orange	
FSR10KT390	39	2.5	25	2.5	3610	24	0.195	10	Orange	White	Orange	
FSR10KT470	47	2.5	25	2.5	3960	22	0.195	10	Yellow	Violet	Orange	
FSR10KT560	56	2.5	25	2.5	4360	20	0.19	10	Green	Blue	Orange	
FSR10KT680	68	2.5	23	2.5	4500	15	0.34	10	Blue	Gray	Orange	
FSR10KT820	82	2.5	23	2.5	5950	15	0.28	10	Gray	Red	Orange	
FSR10KT101	100	1.0	15	1.0	6620	14	0.25	10	Brown	Black	Yellow	
FSR10KT121	120	1.0	15	1.0	7530	11	0.19	10	Brown	Red	Yellow	
FSR10KT151	150	1.0	15	1.0	8290	11	0.135	10	Brown	Green	Yellow	
FSR10KT181	180	1.0	15	1.0	11530	10	0.1	10	Brown	Gray	Yellow	
FSR10KT221	220	1.0	15	1.0	12480	8.0	0.08	10	Red	Red	Yellow	

FSR10-H

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)	Isat(A)	Irms(A)	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Min.	Max.	Typ.	1st		2ed	3rd	
FSR10KTR27-H	0.27	25	40	25	80	500	3.9	3.4	10	Red	Violet	Brown	
FSR10KTR33-H	0.33	25	40	25	90	500	3.4	2.6	10	Orange	Orange	Brown	
FSR10KTR39-H	0.39	25	40	25	90	500	3.1	2.2	10	Orange	White	Brown	
FSR10KTR47-H	0.47	25	40	25	90	500	3.2	2.4	10	Yellow	Violet	Brown	
FSR10KTR56-H	0.56	25	40	25	100	500	2.9	2.3	10	Green	Blue	Brown	
FSR10KTR68-H	0.68	25	40	25	120	450	2.5	2.3	10	Blue	Gray	Brown	
FSR10KTR82-H	0.82	25	40	25	105	450	2.4	2.3	10	Gray	Red	Brown	
FSR10KTR91-H	0.91	25	45	25	165	410	2.1	1.6	10	White	Brown	Brown	
FSR10KT1R0-H	1.0	7.9	35	7.9	125	340	2.4	1.75	10	Brown	Black	Red	
FSR10KT1R2-H	1.2	7.9	35	7.9	135	280	2.4	1.65	10	Brown	Red	Red	
FSR10KT1R5-H	1.5	7.9	30	7.9	145	160	2.1	1.75	10	Brown	Green	Red	
FSR10KT1R8-H	1.8	7.9	30	7.9	160	120	2.1	1.45	10	Brown	Gray	Red	
FSR10KT2R0-H	2.0	7.9	30	7.9	165	110	1.8	1.45	10	Red	Black	Red	
FSR10KT2R2-H	2.2	7.9	30	7.9	170	100	1.8	1.45	10	Red	Red	Red	
FSR10KT2R5-H	2.5	7.9	30	7.9	190	80	1.7	1.4	10	Red	Green	Red	
FSR10KT2R7-H	2.7	7.9	30	7.9	185	75	1.5	1.3	10	Red	Violet	Red	
FSR10KT3R3-H	3.3	7.9	30	7.9	210	70	1.6	1.3	10	Orange	Orange	Red	
FSR10KT4R7-H	4.7	7.9	28	7.9	300	55	1.3	1.1	10	Yellow	Violet	Red	
FSR10KT5R6-H	5.6	7.9	28	7.9	350	50	1.1	1.0	10	Green	Blue	Red	
FSR10KT6R8-H	6.8	7.9	28	7.9	370	45	1.1	1.0	10	Blue	Gray	Red	
FSR10KT8R2-H	8.2	7.9	28	7.9	470	45	0.94	0.9	10	Gray	Red	Red	
FSR10KT100-H	10	2.5	22	2.5	500	47	0.99	0.8	10	Brown	Black	Orange	
FSR10KT120-H	12	2.5	22	2.5	680	42	0.77	0.7	10	Brown	Red	Orange	
FSR10KT150-H	15	2.5	22	2.5	720	34	0.74	0.66	10	Brown	Green	Orange	
FSR10KT180-H	18	2.5	22	2.5	950	28	0.63	0.6	10	Brown	Gray	Orange	
FSR10KT220-H	22	2.5	22	2.5	1100	25	0.64	0.55	10	Red	Red	Orange	
FSR10KT270-H	27	2.5	20	2.5	1250	18	0.6	0.51	10	Red	Violet	Orange	
FSR10KT330-H	33	2.5	20	2.5	1370	13	0.49	0.42	10	Orange	Orange	Orange	
FSR10KT390-H	39	2.5	20	2.5	1850	13	0.4	0.4	10	Orange	White	Orange	
FSR10KT470-H	47	2.5	20	2.5	1880	12	0.47	0.41	10	Yellow	Violet	Orange	
FSR10KT560-H	56	2.5	22	2.5	2750	10	0.36	0.34	10	Green	Blue	Orange	
FSR10KT680-H	68	2.5	22	2.5	3000	10	0.38	0.33	10	Blue	Gray	Orange	
FSR10KT820-H	82	2.5	22	2.5	4100	10	0.3	0.28	10	Gray	Red	Orange	

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Isat(A)		Irms(A)		Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Min.	Max.	Typ.	(±%)	1st	2ed	3rd				
FSR10KT101-H	100	1.0	15	1.0	4682	8.0	0.31	0.26	10	Brown	Black	Yellow				
FSR10KT121-H	120	1.0	15	1.0	5800	7.0	0.22	0.24	10	Brown	Red	Yellow				
FSR10KT151-H	150	1.0	13	1.0	6102	7.0	0.26	0.23	10	Brown	Green	Yellow				
FSR10KT181-H	180	1.0	13	1.0	7100	3.0	0.25	0.21	10	Brown	Gray	Yellow				
FSR10KT221-H	220	1.0	13	1.0	7650	3.0	0.22	0.19	10	Red	Red	Yellow				
FSR10KT271-H	270	1.0	13	1.0	12520	3.0	0.15	0.17	10	Red	Violet	Yellow				
FSR10KT331-H	330	1.0	13	1.0	12620	3.0	0.17	0.16	10	Orange	Orange	Yellow				
FSR10KT391-H	390	1.0	13	1.0	23000	3.0	0.12	0.14	10	Orange	White	Yellow				
FSR10KT471-H	470	1.0	13	1.0	25000	3.0	0.135	0.13	10	Yellow	Violet	Yellow				
FSR10KT501-H	500	1.0	13	1.0	25900	2.0	0.1	0.095	10	Green	Black	Yellow				
FSR10KT561-H	560	1.0	13	1.0	27000	2.0	0.1	0.095	10	Green	Blue	Yellow				
FSR10KT681-H	680	1.0	13	1.0	31000	2.0	0.1	0.095	10	Blue	Gray	Yellow				
FSR10KT821-H	820	1.0	10	1.0	42000	2.0	0.1	0.095	10	Gray	Red	Yellow				
FSR10KT102-H	1000	1.0	10	1.0	46000	2.0	0.095	0.095	10	Brown	Black	Red				

Ordering information

FSR - 10 - K - T - 1R0

(1) (2) (3) (4) (5)

- (1) Type : Surface Mountable Type
- (2) Size : 10(1210) is size
- (3) Tolerance : K=10%
- (4) Packaging style : Taping Reel
- (5) Inductance : R12 for 0.12uH, 1R0 for 1.0uH, 100 for 10uH, 101 for 100uH, 102 for 1000uH...

Characteristics

FSR10

- Idc for Inductance drop 10% from its value without current
- Irms for a 25°C rise above 25°C ambient
- Operating temperature range from -25°C to 85°C

FSR10-H

- Isat : Idc obtained when Inductance drop 35% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -25°C to 105°C

Test equipment

FSR10

- L, Q, SRF : Agilent/ HP E4991A+ Agilent/ HP16197A
- DCR : Chroma Milliohm meter 16502, or equivalent

FSR10-H

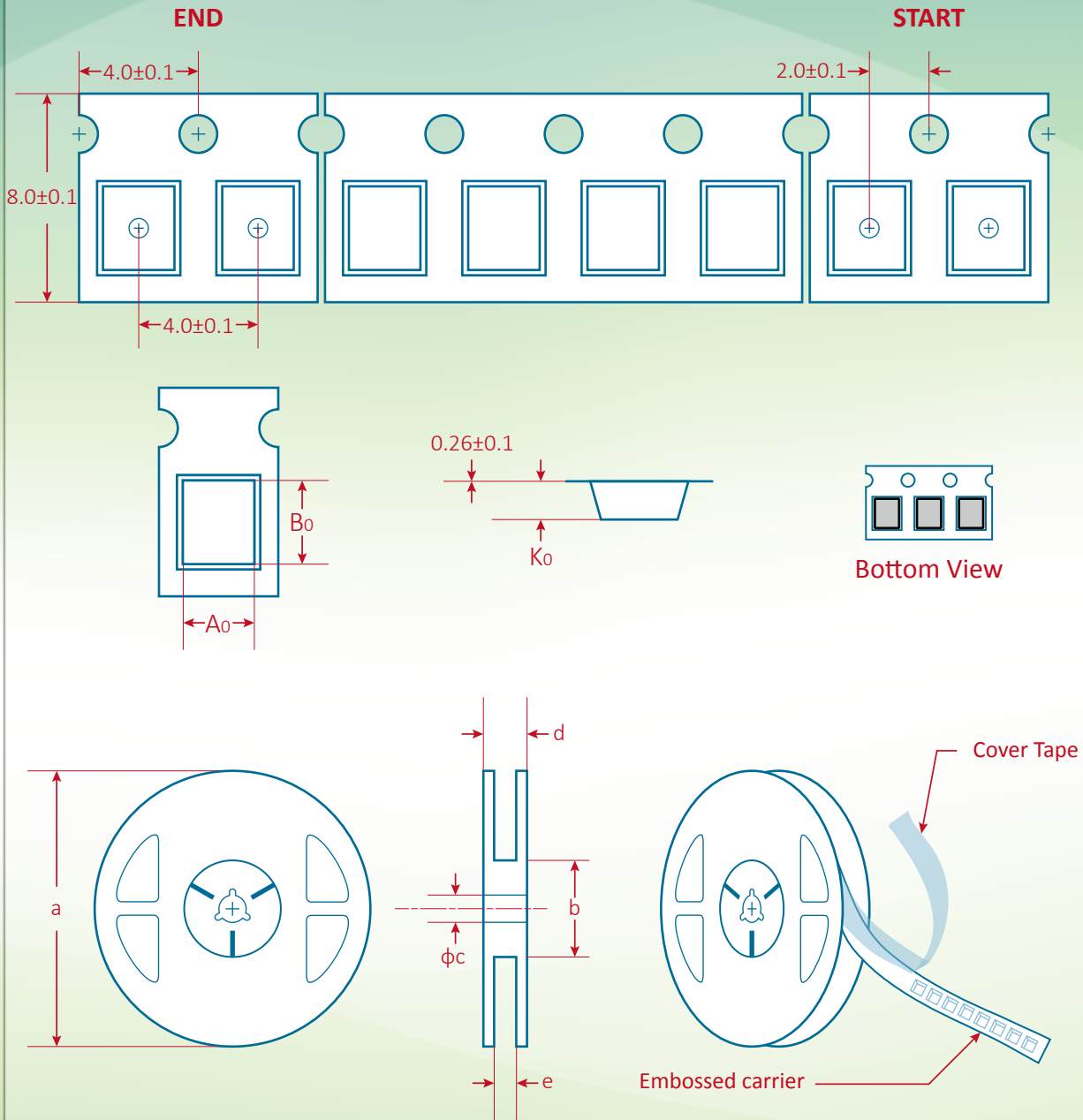
- L, Q, SRF : Agilent E4991A RF Impedance/ Material Analyzer + Agilent 16197A Test Fixtures (The electrical specification test by the smallest gap position)
- DCR : Digital Milliohm meter Chroma 16502, or equivalent

FSR10

FSR10-H

Packing

Dimensions in mm



Item	A_0	B_0	K_0	a	b	ϕ_c	d	e
FSR10	2.88 ± 0.1	3.72 ± 0.1	2.5 ± 0.1	180	60	13	14.4	8.4
FSR10-H	2.88 ± 0.1	3.72 ± 0.1	2.5 ± 0.1	180	60	13	14.4	8.4
Reel								
Q'ty(Pcs)								
2,000								