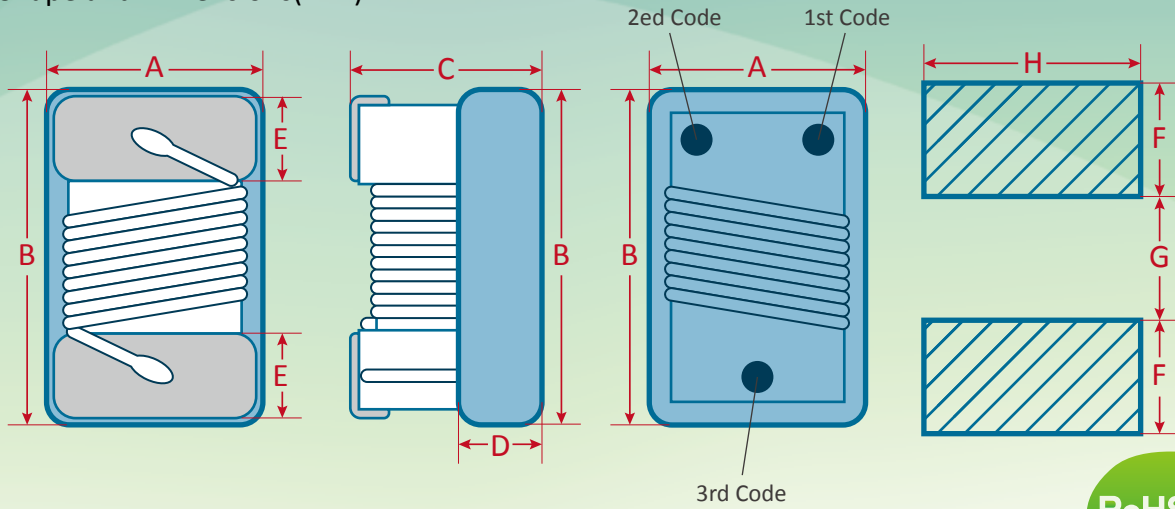


FSR Series

Surface Mountable Type

Shape and Dimensions(mm):



Item	A	B	C	D	E	F	G	H
FSR08	2.54 Max.	2.9 Max.	2.03 Max.	1.3 Ref.	0.5±0.1	1.02 Typ.	1.27 Typ.	2.54 Typ.
FSR08-H	2.54 Max.	2.9 Max.	2.0 Max.	1.3 Ref.	0.5±0.1	1.02 Typ.	1.27 Typ.	2.54 Typ.

FSR08

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Idc(A)	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Min.	Max.	1st			2ed	3rd	
FSR08KTR10	0.1	25	25	25	200	930	1.3	10	Brown	Black	Brown		
FSR08KTR12	0.12	25	26	25	300	930	1.0	10	Brown	Red	Brown		
FSR08KTR15	0.15	25	26	25	300	930	1.0	10	Brown	Green	Brown		
FSR08KTR18	0.18	25	30	25	300	930	0.96	10	Brown	Gray	Brown		
FSR08KTR20	0.2	25	30	25	300	735	0.96	10	Red	Black	Brown		
FSR08KTR22	0.22	25	27	25	400	750	0.88	10	Red	Red	Brown		
FSR08KTR27	0.27	25	29	25	420	700	0.9	10	Red	Violet	Brown		
FSR08KTR33	0.33	25	30	25	420	600	0.9	10	Orange	Orange	Brown		
FSR08KTR39	0.39	25	30	25	450	480	0.92	10	Orange	White	Brown		
FSR08KTR47	0.47	25	30	25	500	470	0.92	10	Yellow	Violet	Brown		
FSR08KTR56	0.56	25	30	25	550	460	0.9	10	Green	Blue	Brown		
FSR08KTR62	0.62	25	30	25	550	460	0.9	10	Blue	Red	Brown		
FSR08KTR68	0.68	25	30	25	550	420	0.88	10	Blue	Gray	Brown		
FSR08KTR75	0.75	25	30	25	650	420	0.88	10	Violet	Green	Brown		
FSR08KTR82	0.82	25	30	25	650	380	0.84	10	Gray	Red	Brown		
FSR08KTR91	0.91	25	30	25	650	400	0.84	10	White	Brown	Brown		
FSR08KT1R0	1.0	7.9	25	7.9	600	300	0.8	10	Brown	Black	Red		
FSR08KT1R2	1.2	7.9	25	7.9	740	280	0.8	10	Brown	Red	Red		
FSR08KT1R5	1.5	7.9	25	7.9	850	245	0.78	10	Brown	Green	Red		
FSR08KT1R8	1.8	7.9	25	7.9	920	240	0.78	10	Brown	Gray	Red		
FSR08KT2R2	2.2	7.9	25	7.9	1100	205	0.76	10	Red	Red	Red		
FSR08KT2R7	2.7	7.9	25	7.9	1220	187	0.76	10	Red	Violet	Red		
FSR08KT3R3	3.3	7.9	25	7.9	1370	165	0.74	10	Orange	Orange	Red		
FSR08KT3R9	3.9	7.9	25	7.9	1660	144	0.7	10	Orange	White	Red		

Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Idc(A)	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Min.	(MHz)	Max.	Min.	Max.	1st			2ed	3rd	
FSR08KT4R7	4.7	7.9	25	7.9	1680	110	0.66	10	10	Yellow	Violet	Red	
FSR08KT5R6	5.6	7.9	25	7.9	1750	88	0.64	10	10	Green	Blue	Red	
FSR08KT6R8	6.8	7.9	25	7.9	1850	70	0.64	10	10	Blue	Gray	Red	
FSR08KT8R2	8.2	7.9	25	7.9	2000	57	0.6	10	10	Gray	Red	Red	
FSR08KT100	10	7.9	25	7.9	2320	55	0.6	10	10	Brown	Black	Orange	
FSR08KT120	12	2.5	15	2.5	2990	52	0.56	10	10	Brown	Red	Orange	
FSR08KT150	15	2.5	15	2.5	3420	49	0.48	10	10	Brown	Green	Orange	
FSR08KT180	18	2.5	15	2.5	4650	48	0.42	10	10	Brown	Gray	Orange	
FSR08KT220	22	2.5	15	2.5	5120	25	0.42	10	10	Red	Red	Orange	
FSR08KT270	27	2.5	15	2.5	5760	23	0.42	10	10	Red	Violet	Orange	
FSR08KT330	33	2.5	15	2.5	6440	17	0.4	10	10	Orange	Orange	Orange	
FSR08KT390	39	2.5	15	2.5	6850	15	0.38	10	10	Orange	White	Orange	
FSR08KT470	47	2.5	14	2.5	9940	13	0.26	10	10	Yellow	Violet	Orange	
FSR08KT560	56	2.5	14	2.5	10700	10	0.28	10	10	Green	Blue	Orange	
FSR08KT680	68	2.5	14	2.5	12800	8.0	0.26	10	10	Blue	Gray	Orange	
FSR08KT820	82	2.5	14	2.5	18300	8.0	0.24	10	10	Gray	Red	Orange	
FSR08KT101	100	1.0	8.0	1.0	19600	7.0	0.2	10	10	Brown	Black	Yellow	

FSR08-H


Part No.	Inductance		Q		DCR(mΩ)		SRF(MHz)		Isat(A)	Irms(A)	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Typ.	(MHz)	Max.	Min.	Max.	Typ.				1st	2ed	3rd
FSR08KTR10-H	0.1	25	35	25	50	1500	3.2	2.7	10	10	Brown	Red	Brown	
FSR08KTR22-H	0.22	25	35	25	150	800	2.9	2.4	10	10	Red	Red	Brown	
FSR08KTR39-H	0.39	25	35	25	200	460	2.1	1.8	10	10	Orange	White	Brown	
FSR08KTR47-H	0.47	25	35	25	200	460	2.1	1.8	10	10	Yellow	Violet	Brown	
FSR08KTR56-H	0.56	25	35	25	260	360	1.8	1.5	10	10	Green	Blue	Brown	
FSR08KTR68-H	0.68	25	35	25	300	400	1.7	1.5	10	10	Blue	Gray	Brown	
FSR08KTR82-H	0.82	25	35	25	350	360	1.4	1.2	10	10	Gray	Red	Brown	
FSR08KT1R0-H	1.0	7.9	32	7.9	340	340	1.7	1.2	10	10	Brown	Black	Red	
FSR08KT1R2-H	1.2	7.9	25	7.9	250	300	1.6	1.1	10	10	Brown	Red	Red	
FSR08KT1R5-H	1.5	7.9	32	7.9	420	230	1.2	1.0	10	10	Brown	Green	Red	
FSR08KT1R8-H	1.8	7.9	27	7.9	450	180	1.1	0.8	10	10	Brown	Gray	Red	
FSR08KT2R2-H	2.2	7.9	27	7.9	500	140	1.1	0.9	10	10	Red	Red	Red	
FSR08KT2R7-H	2.7	7.9	27	7.9	550	130	1.0	0.9	10	10	Red	Violet	Red	
FSR08KT3R3-H	3.3	7.9	27	7.9	600	125	1.0	0.9	10	10	Orange	Orange	Red	
FSR08KT3R9-H	3.9	7.9	27	7.9	800	100	0.99	0.8	10	10	Orange	White	Red	
FSR08KT4R7-H	4.7	7.9	30	7.9	900	90	0.88	0.72	10	10	Yellow	Violet	Red	
FSR08KT5R6-H	5.6	7.9	27	7.9	1000	60	0.85	0.72	10	10	Green	Blue	Red	
FSR08KT6R8-H	6.8	7.9	27	7.9	1050	60	0.84	0.67	10	10	Blue	Gray	Red	
FSR08KT8R2-H	8.2	7.9	25	7.9	1200	55	0.81	0.64	10	10	Gray	Red	Red	
FSR08KT100-H	10	2.5	23	2.5	1550	55	0.7	0.54	10	10	Brown	Black	Orange	
FSR08KT120-H	12	2.5	23	2.5	2100	36	0.58	0.46	10	10	Brown	Red	Orange	
FSR08KT150-H	15	2.5	23	2.5	2380	36	0.58	0.46	10	10	Brown	Green	Orange	
FSR08KT180-H	18	2.5	23	2.5	2500	32	0.52	0.41	10	10	Brown	Gray	Orange	
FSR08KT220-H	22	2.5	23	2.5	2920	29	0.5	0.4	10	10	Red	Red	Orange	
FSR08KT270-H	27	2.5	23	2.5	3700	22	0.45	0.3	10	10	Red	Violet	Orange	
FSR08KT330-H	33	2.5	23	2.5	4100	21	0.42	0.3	10	10	Orange	Orange	Orange	
FSR08KT390-H	39	2.5	18	2.5	5500	15	0.34	0.27	10	10	Orange	White	Orange	
FSR08KT470-H	47	2.5	23	2.5	7800	17	0.31	0.22	10	10	Yellow	Violet	Orange	

Part No.	Inductance		Q		DCR(mΩ) Max.	SRF(MHz)		Isat(A) Max.	Irms(A) Typ.	Tolerance (±%)	Color Coding		
	(uH)	(MHz)	Typ.	(MHz)		Min.	Max.				1st	2ed	3rd
FSR08KT680-H	68	2.5	20	2.5	11500	9.0	0.22	0.18	10	Blue	Gray	Orange	
FSR08KT101-H	100	1.0	13	1.0	13200	4.0	0.21	0.17	10	Brown	Black	Yellow	
FSR08KT151-H	150	1.0	13	1.0	22500	3.0	0.17	0.16	10	Brown	Green	Yellow	
FSR08KT221-H	220	1.0	13	1.0	26500	3.0	0.16	0.1	10	Red	Red	Yellow	
FSR08KT331-H	330	1.0	13	1.0	32500	2.0	0.13	0.09	10	Orange	Orange	Yellow	

Ordering information

FSR - 08 - K - T - 1R0

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

- (1) Type : Surface Mountable Type
- (2) Size : 08(1008) is size
- (3) Tolerance : K=10%
- (4) Packaging style : Taping Reel
- (5) Inductance : R10 for 0.1uH, 1R0 for 1.0uH, 100 for 10uH, 101 for 100uH...

Characteristics

FSR08

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

FSR08-H

- Isat for 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 85°C

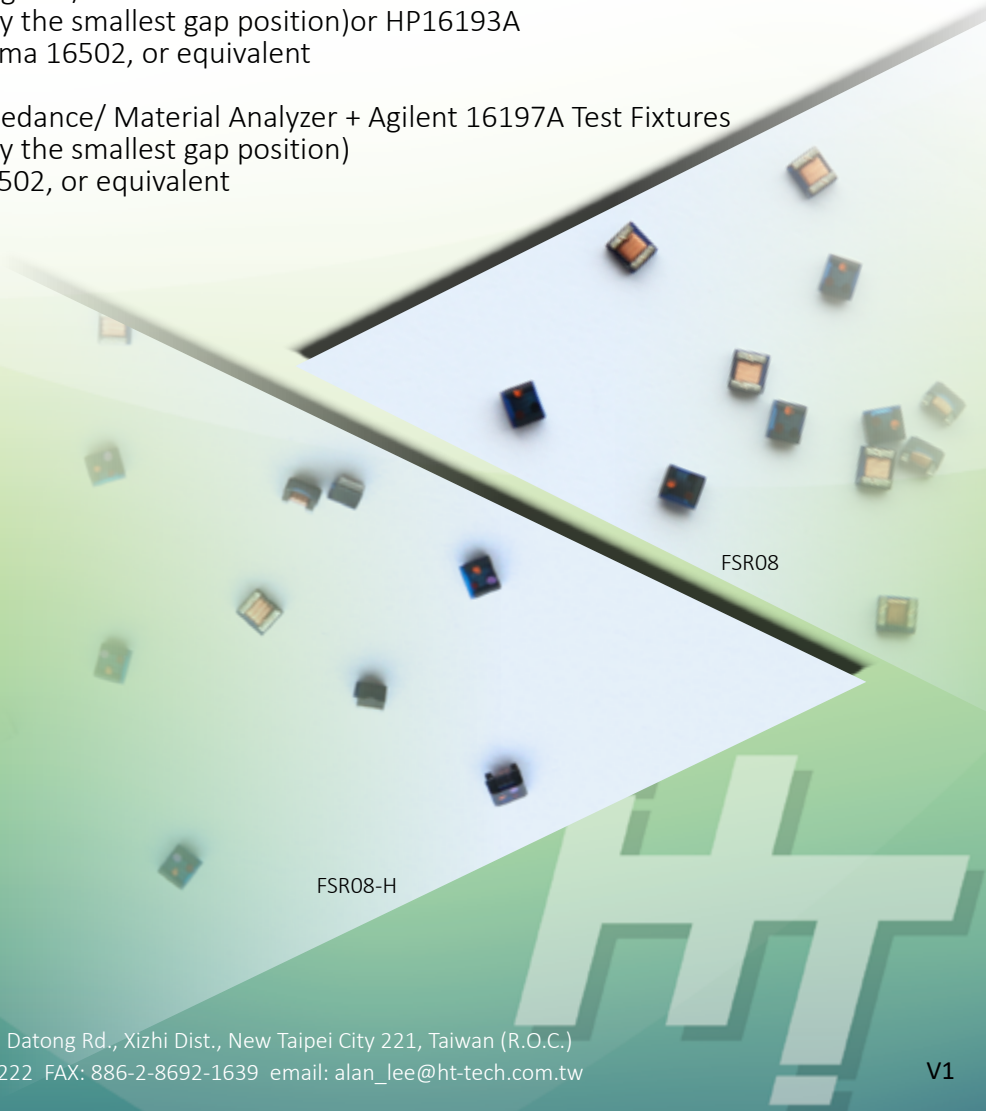
Test equipment

FSR08

- L, Q, SRF : Agilent/ HP E4991A+ Agilent/ HP16197A
(The electrical specification test by the smallest gap position)or HP16193A
- DCR : Digital Milliohm meter Chroma 16502, or equivalent

FSR08-H

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

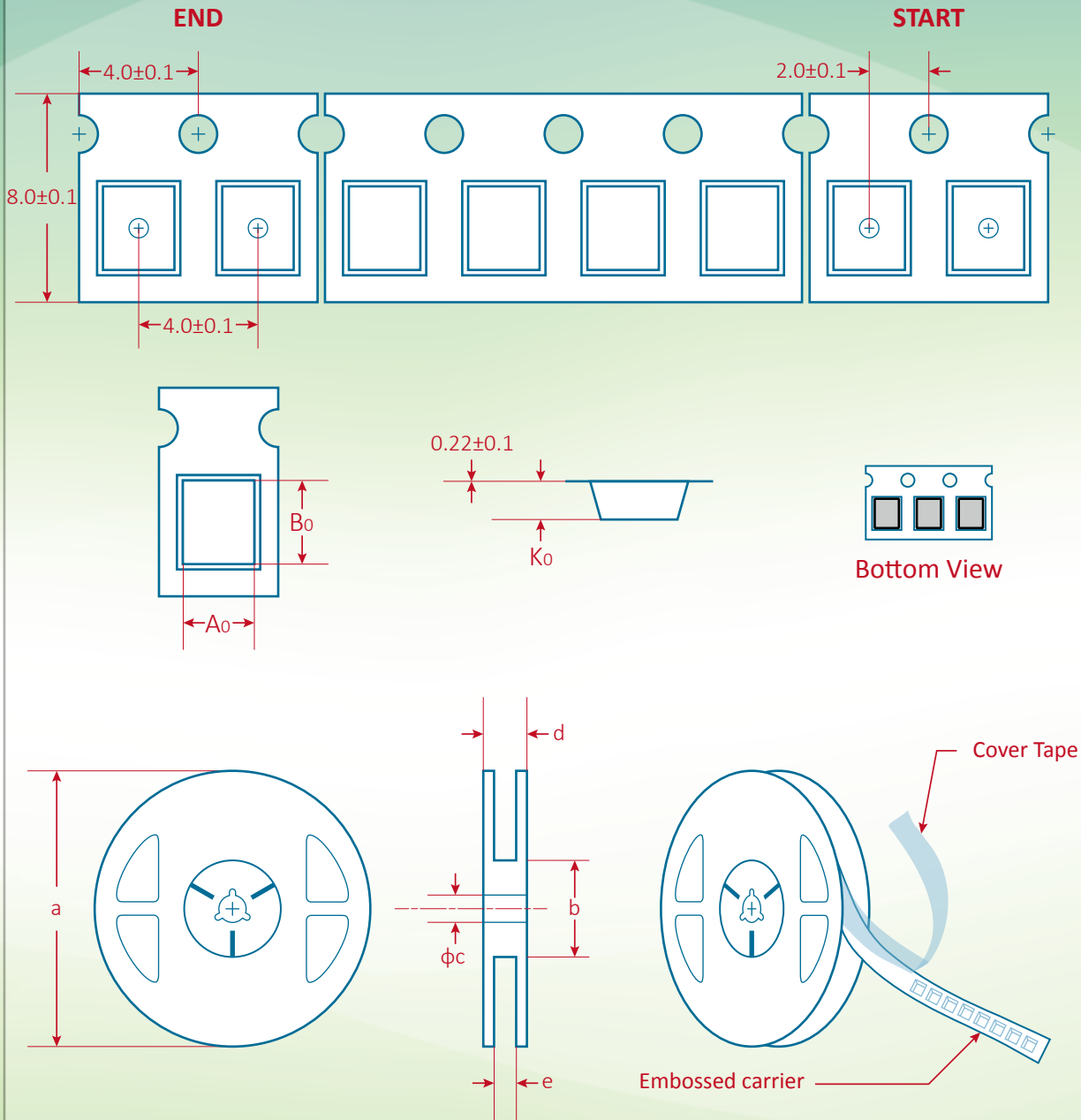


FSR08

FSR08-H

Packing

Dimensions in mm



Item	A ₀	B ₀	K ₀	a	b	ϕ_c	d	e
FSR08	2.5±0.1	2.85±0.1	2.0±0.1	180	60	13	14.4	8.4
FSR08-H	2.5±0.1	2.85±0.1	2.0±0.1	180	60	13	14.4	8.4
Reel								
Q'ty(Pcs)								
2,000								