



# Frontier Electronics Corp.

685 E. COCHRAN STREET, SIMI VALLEY, CA 93065

TEL: (805) 522-9998

FAX: (805) 522-9989

E-mail: [frontiersales@frontierusa.com](mailto:frontiersales@frontierusa.com)

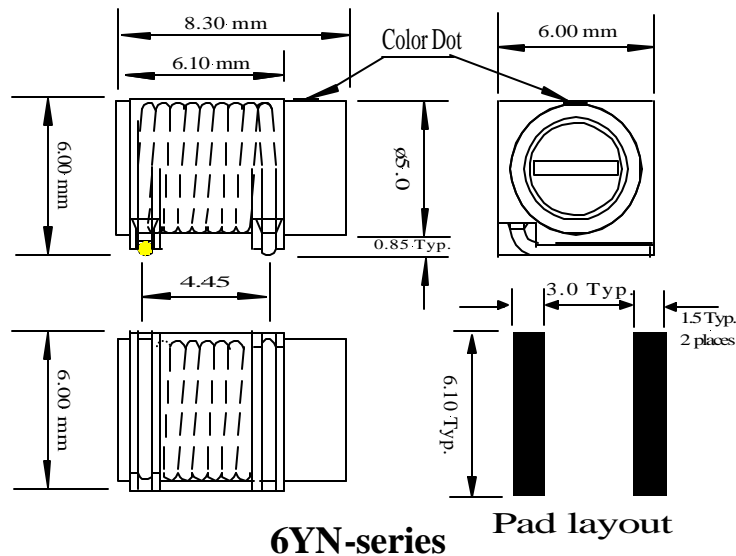
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## SMD Tunable Hi-Q RF Inductors—6YN-Series

### A. Electrical specification:

P/N	L Min. (nH)	L Nom. (nH)	L Max. (nH)	Test Freq. (MHz)	Q (Min.) @L max.	SRF Min. (MHz)	DCR (mW Max.)	Color Code
6YN-01	17	20	23	50	105	1500	6.0	Brown
6YN-02	34	39	44	50	100	1125	7.5	Red
6YN-03	50	57	64	25.2	120	900	9.5	Orange
6YN-04	76	88	100	25.2	120	675	11.0	Yellow
6YN-05	100	120	140	25.2	120	525	12.5	Green
6YN-06	130	160	195	25.2	115	475	14.0	Blue
6YN-07	165	210	255	25.2	88	375	16.0	Violet
6YN-08	195	255	315	25.2	80	325	18.0	Gray
6YN-09	245	315	385	25.2	80	300	20.0	White

### B. Mechanical dimensions: (Unit: mm)



### C. General Information:

1. Excellent temperature coefficient.
2. Special selected core produces Hi-Q performance.
3. For high frequency operation up to 1.0 GHz.
4. SMT tunable inductor with flat-top for pick & place.
5. L measured with HP 4291B meter and HP-16193A fixture.
6. L Min. measured with core two turns inside the form.
7. Operating temperature: -25°C to +125°C.
8. Storage temperature: -40°C to +125°C.
9. Q measured a L max value using HP4191A with HP16092A test fixture.
10. SRF measured without core using Scalar Analyzer.