

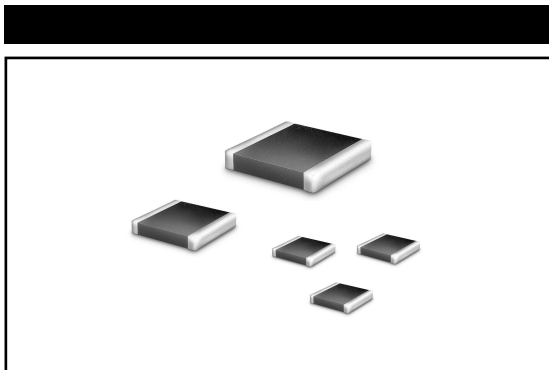
MODEL BMC SERIES

Surface Mount

Multilayer

High Frequency

Ceramic Chip Inductors



FEATURES AND BENEFITS

- Tight dimensional tolerances and a small package make this chip ideal for high density installation
- Monolithic glass ceramic material for high frequency UHF band applications
- Compatible with vapor phase and infrared reflow soldering
- High self-resonant frequency
- Industry standard sizes: 0402, 0603, 0805

APPLICATIONS

- RF and wireless communication
- Radar Detectors
- PDAs
- Keyless remote systems
- Video audio equipment
- Cellular phones and pagers

ELECTRICAL / ENVIRONMENTAL

Inductance Range	1.5nH to 180nH
Standard Tolerance	±10%
Operating Temperature Range	-40°C to +125°C
Storage Temperature Range	-40°C to +85°C
Humidity Range	-40°C to +85°C, 75% R.H., Max.
Ambient Temperature, Maximum	80°C
Resistance to Solder Heat	260°C for 10 sec.

Specifications subject to change without notice.

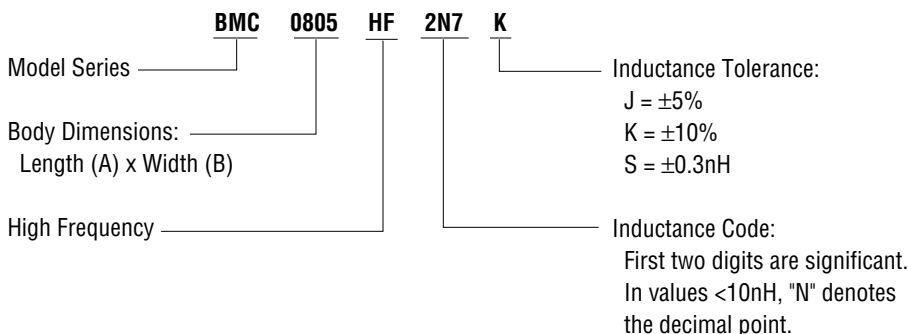
SPECIFICATIONS

Part Number	Thickness	Inductance	Q (Typical) @ 100/800MHz	Self-Resonant Frequency	DCR	Rated Current
	Inch/mm Tol: ±.002/.05			Min./Typ. MHz	Max. Ω	
BMC0402HF-1N5S	0.02/0.5	1.5	8/30	4000/6000	0.10	300
BMC0402HF-1N8S	0.02/0.5	1.8	8/30	3800/6000	0.12	300
BMC0402HF-2N2S	0.02/0.5	2.2	8/30	3600/6000	0.16	300
BMC0402HF-2N7S	0.02/0.5	2.7	8/30	3400/5500	0.20	300
BMC0402HF-3N3K	0.02/0.5	3.3	8/28	3200/5000	0.22	300
BMC0402HF-3N9K	0.02/0.5	3.9	8/30	3000/4700	0.25	300
BMC0402HF-4N7K	0.02/0.5	4.7	8/28	2800/4300	0.28	300
BMC0402HF-5N6K	0.02/0.5	5.6	8/28	2700/4000	0.29	300
BMC0402HF-6N8K	0.02/0.5	6.8	8/28	2600/3650	0.35	300
BMC0402HF-8N2K	0.02/0.5	8.2	8/28	2200/3200	0.40	300
BMC0402HF-10NK	0.02/0.5	10.0	8/23	1800/2800	0.45	300
BMC0603HF-1N5S	0.031/0.8	1.5	8/38	4000/6000	0.10	300
BMC0603HF-1N8S	0.031/0.8	1.8	8/36	3800/6000	0.12	300
BMC0603HF-2N2S	0.031/0.8	2.2	8/34	3600/6000	0.16	300
BMC0603HF-2N7S	0.031/0.8	2.7	8/32	3400/6000	0.20	300
BMC0603HF-3N3K	0.031/0.8	3.3	8/30	3200/5700	0.22	300
BMC0603HF-3N9K	0.031/0.8	3.9	8/32	3000/5600	0.25	300
BMC0603HF-4N7K	0.031/0.8	4.7	8/38	2800/4800	0.28	300
BMC0603HF-5N6K	0.031/0.8	5.6	8/36	2700/4350	0.29	300
BMC0603HF-6N8K	0.031/0.8	6.8	8/34	2600/3750	0.30	300
BMC0603HF-8N2K	0.031/0.8	8.2	8/32	2200/3300	0.33	300
BMC0603HF-10NK	0.031/0.8	10.0	8/30	1800/2850	0.35	300
BMC0603HF-12NK	0.031/0.8	12.0	8/30	1650/2700	0.40	300
BMC0603HF-15NK	0.031/0.8	15.0	8/26	1350/2400	0.45	300
BMC0603HF-18NK	0.031/0.8	18.0	8/25	1350/2050	0.50	300
BMC0603HF-22NK	0.031/0.8	22.0	8/30	1100/1850	0.55	300
BMC0603HF-27NK	0.031/0.8	27.0	8/26	1100/1750	0.60	300
BMC0603HF-33NK	0.031/0.8	33.0	8/24	1000/1500	0.65	300
BMC0603HF-39NK	0.031/0.8	39.0	8/20	900/1350	0.70	300
BMC0603HF-47NK	0.031/0.8	47.0	10/18	800/1200	0.90	300
BMC0603HF-56NK	0.031/0.8	56.0	10/14	700/1100	1.00	300

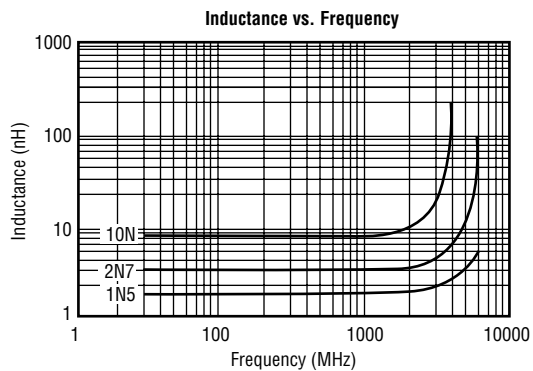
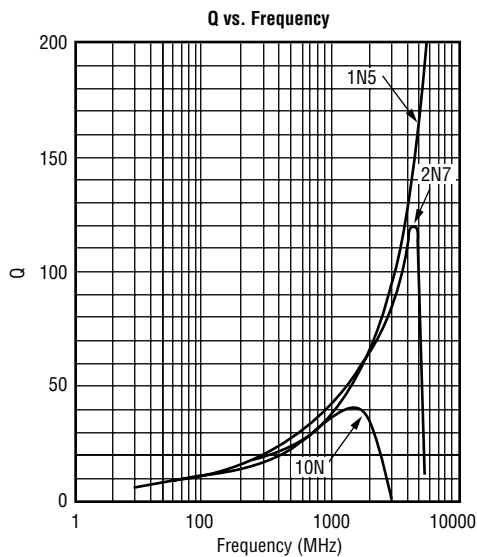
SPECIFICATIONS

Part Number	Thickness Inch/mm Tol: $\pm .002/.05$	Inductance nH	Q (Typical) @ 100/800MHz	Self-Resonant Frequency Min./Typ. MHz	DCR Max. Ω	Rated Current mA
BMC0805HF-1N5S	0.04/1.0	1.5	10/40	4000/6000	0.10	300
BMC0805HF-1N8S	0.04/1.0	1.8	10/45	4000/6000	0.10	300
BMC0805HF-2N2S	0.04/1.0	2.2	10/48	3800/6000	0.10	300
BMC0805HF-2N7S	0.04/1.0	2.7	10/36	3600/6000	0.10	300
BMC0805HF-3N3K	0.04/1.0	3.3	10/56	3400/6000	0.13	300
BMC0805HF-3N9K	0.04/1.0	3.9	10/54	3200/5400	0.15	300
BMC0805HF-4N7K	0.04/1.0	4.7	10/50	3000/4500	0.20	300
BMC0805HF-5N6K	0.04/1.0	5.6	10/53	2800/4000	0.23	300
BMC0805HF-6N8K	0.04/1.0	6.8	10/51	2600/3650	0.25	300
BMC0805HF-8N2K	0.04/1.0	8.2	10/53	2200/3000	0.28	300
BMC0805HF-10NK	0.04/1.0	10.0	10/45	1800/2500	0.30	300
BMC0805HF-12NK	0.04/1.0	12.0	10/48	1650/2450	0.35	300
BMC0805HF-15NK	0.04/1.0	15.0	10/48	1350/2000	0.40	300
BMC0805HF-18NK	0.04/1.0	18.0	15/43	1350/1750	0.45	300
BMC0805HF-22NK	0.04/1.0	22.0	15/47	1100/1700	0.50	300
BMC0805HF-27NK	0.04/1.0	27.0	15/38	1100/1550	0.55	300
BMC0805HF-33NK	0.04/1.0	33.0	15/35	1000/1350	0.60	300
BMC0805HF-39NK	0.04/1.0	39.0	15/40	900/1300	0.65	300
BMC0805HF-47NK	0.04/1.0	47.0	15/33	850/1200	0.70	300
BMC0805HF-56NK	0.04/1.0	56.0	15/-	750/1150	0.75	300
BMC0805HF-68NK	0.04/1.0	68.0	15/-	700/1000	0.80	300
BMC0805HF-82NK	0.04/1.0	82.0	15/-	600/850	0.90	300
BMC0805HF-R10K	0.04/1.0	100.0	15/-	500/730	1.00	300
BMC0805HF-R12K	0.04/1.0	120.0	15/-	450/650	1.30	300
BMC0805HF-R15K	0.04/1.0	150.0	15/-	400/550	1.50	300
BMC0805HF-R18K	0.04/1.0	180.0	15/-	350/500	1.80	300

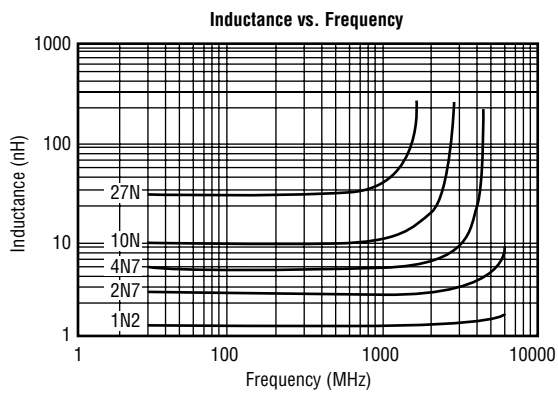
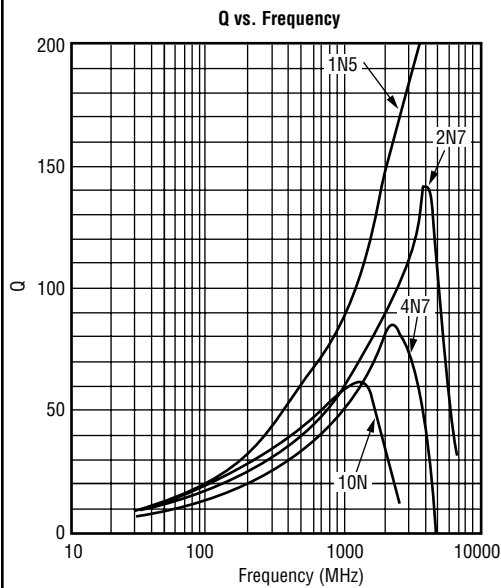
ORDERING INFORMATION



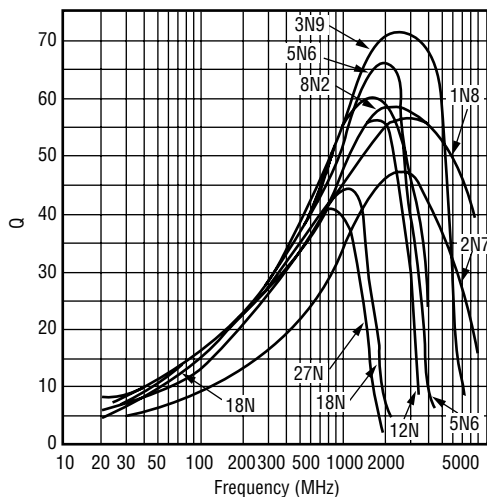
0402 ELECTRICAL SPECIFICATIONS



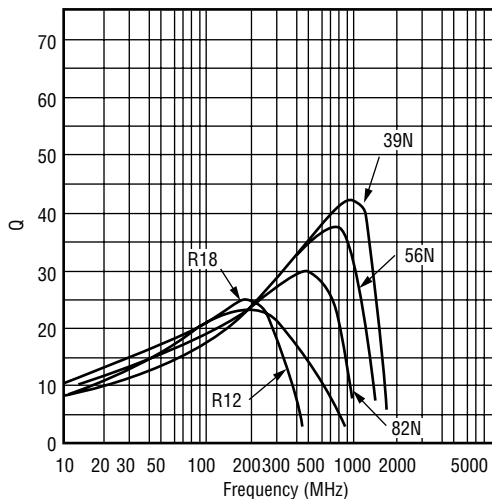
0603 ELECTRICAL SPECIFICATIONS



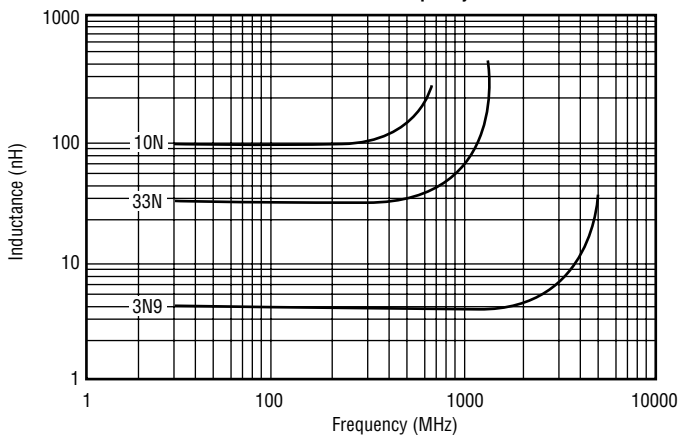
Q vs. Frequency



Q vs. Frequency

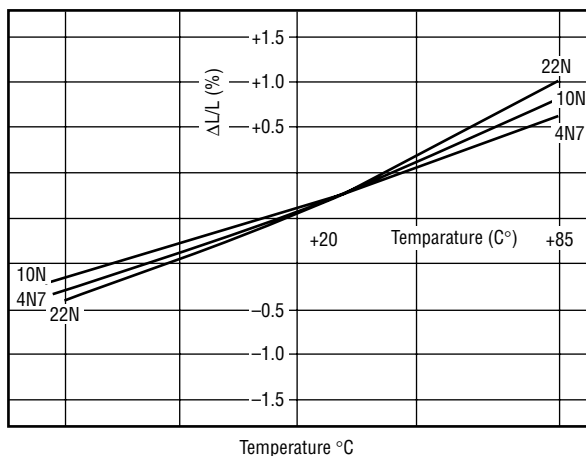


Inductance vs. Frequency

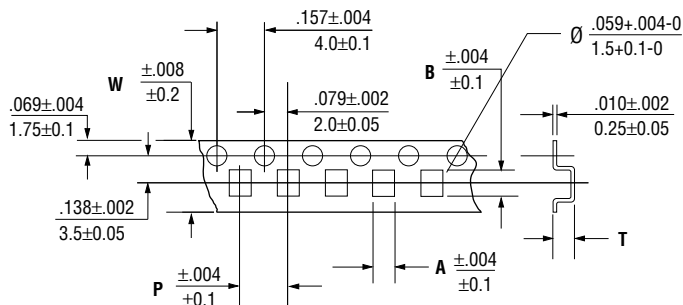


ELECTRICAL SPECIFICATIONS - ALL MODELS

Inductance vs. Temperature



PACKAGING (Inch/mm)



Tape Material: Polystyrene

Part #	A	B	W	P	T	7" Reel Diameter (Qty./Reel)
BMC 0805	$\frac{.059}{1.5}$	$\frac{.091}{2.30}$	$\frac{.315}{8}$	$\frac{.158}{4}$	$\frac{.051}{1.3}$	3,000
BMC 0603	$\frac{.047}{1.2}$	$\frac{.075}{1.9}$	$\frac{.315}{8}$	$\frac{.158}{4}$	$\frac{.049}{1.25}$	4,000
BMC 0402	$\frac{.027}{.69}$	$\frac{.047}{1.19}$	$\frac{.315}{8}$	$\frac{.158}{4}$	$\frac{.026}{.66}$	6,000