



**Description:** Ferro manufactures dielectric materials for a wide variety of high-frequency applications, including resonators, filters and antennas. This table presents material properties of some of the materials available for these applications.

The data represents a puck of material in a microwave cavity test fixture with no metallization and, consequently, describes the performance of the dielectric material only.

Product	Type	Ceramic	Frit	Sintering (°C, atm.)	$\epsilon'$ at 1 MHz	$\epsilon''$	Qc (1/Tan)	Fr (GHz)	Qc*Fr	Tf (ppm/°C)	Density (g/cc)
<b>C0G820MW</b>	HF	RE-Bi-Titanate	N	1330, Air	80	82.64	2956	2.6630	8462	-0.2	5.68
<b>C0G600H</b>	HF	RE-Titanate	N	1260, Air	60	57.25	1075	3.1904	3686	1.0	5.65
<b>C0G620H</b>	HF	RE-Titanate	N	1260, Air	60	56.18	1056	3.1970	3630	-4.9	5.65
<b>NPO610H</b>	HF	RE-Titanate	N	1260, Air	60	57.00	688	3.1500	2329	1.9	5.59
<b>216 MgTiO3</b>	HF	MgTiO <sub>3</sub>	N	1325, Air	12	10.97	2630	5.5810	15,778	-21.0	3.43
<b>Ticon 75</b>	HF	MgTiO <sub>3</sub>	N	1325, Air	11	13.14	2220	5.7330	13,682	-16.8	3.64
<b>AD850DZ</b>	MF	RE-Titanate	Y	1200, Air	85	82.05	1366	2.6870	3945	10.3	5.63
<b>C0G900L</b>	LF	RE-Titanate	Y	1120, Air	90	86.26	841	3.1490	2331	7.1	5.71
<b>C0G630L</b>	LF	RE-Titanate	Y	1130, Air	60	58.81	700	2.5780	2369	-14.9	5.71
<b>ULF101</b>	ULF	RE-Titanate	Y	960, Air	100	89.04	572	2.4940	1535	26.4	5.62
<b>ULF900</b>	ULF	RE-Titanate	Y	960, Air	90	86.64	761	2.5826	2121	18.9	5.73
<b>ULF800</b>	ULF	RE-Titanate	Y	860, Air	80	87.34	909	2.6400	2581	5.4	5.62
<b>ULF140</b>	ULF	BaCaMgZr-Silicate	Y	900, Air	14	13.27	1713	5.6220	10,351	-13.5	4.37
<b>AD350N</b>	BME	Sr-Ba-Ziconate	Y	1320, Air	35	33.0	2533	5.6570	11,146	-2.3	5.16

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