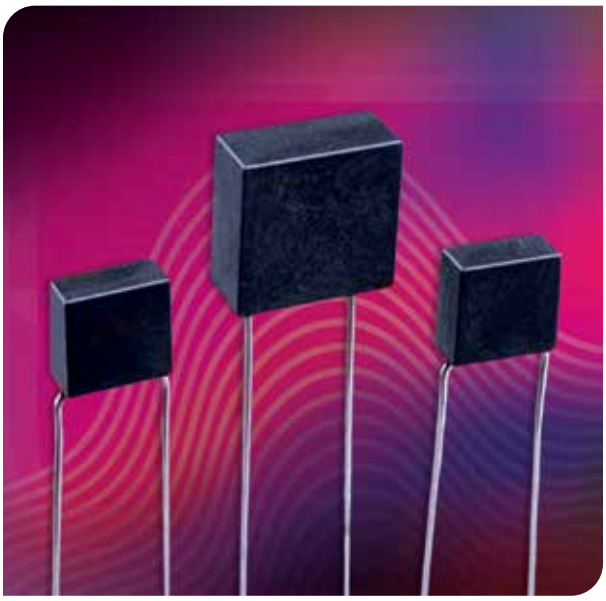
Capacitors - High Temperature

Radial Leaded 200°C Rated



Features:

- For use at Temperature Up to 200°C
- Dielectric Type: NP0, X7R
- Capacitance Range: 200pF-3.9pF
- Rated Working Voltages from 50V to 4KV
- Rugged Premolded Case with Hi-Temp Epoxy Fill
- Compact MLC Designs Utilizing Military Grade Ceramics
- Custom Sizes, Values, and Voltages Available

Common Applications:

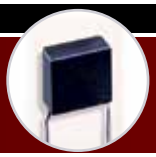
- Oil Well Logging (Down-hole)
- Geophysical Probes
- Jet Engine Controls

Dielectric	NP0 Dielectric	X7R Dielectric
Temperature Coefficient	0 ± 30ppm/°C, -55 to 125°C	± 15% -55 to 125°C
Capacitance Drop at 200°C	minus 0.5% max	minus 45% max
Dissapation Factor	.001 (0.1%)max, 1Khz, 25°C	.025 (2.5%)max, 1Khz, 25°C
Insulation Resistance at 25°C	1000 ΩF or 100 GΩ, whichever is less @ 25°C, WVDC	1000 ΩF or 100 GΩ, whichever is less @ 25°C, WVDC
Insulation Resistance at 200°C	1 ΩF or 100 GΩ, whichever is less @ 200°C, WVD	1 ΩF or 100 GΩ, whichever is less @ 200°C, WVDC
For 25-200V Ratings	2.5 X WVDC, 25°C, 50 mA max	2.5 X WVDC, 25°C, 50 mA max
For 500V Ratings	1.5 X WVDC, 25°C, 50 mA max	1.5 X WVDC, 25°C, 50 mA max
For 1-4 KV Ratings	1.2 X WVDC, 25°C, 50 mA max	1.2 X WVDC, 25°C, 50 mA max

HOW TO ORDER

HP	EY	101	G	104	M	3	QA	001	B
Subfamiy	**Size**	**Voltage**	**DTC**	**Capacitance**	**Tol**	**Mark**	**Termination**	**Special Code**	**Pack**
HP = High Temp Radial 200°C	See chart	**500** = 50V **101** = 100V **201** = 200V **501** =500V **102** = 1KV **202** = 2KV **302** = 3KV **402** = 4KV	**G** = NP0/C0G **W** = X7R	1st two digits are significant; 3rd digit denotes number of zeros. **102** = 1000 pF **103** = 0.01 µF **104** = 0.10 µF	NP0 **J** = ±5% **K** = ±10% X7R **K** = ±10% **M** = ±20%	**3** = Cap Code & Tol **Z** = Special Code	**QA** = Blk compostie case w/ Radial Wire (Ni/SnPb)	**001** = No mark	**B** = Bulk **C** = Non-conductive bags

Example: **HPEY102G223MZQA001B** Capacitors High-Temperature Radial 200°, 2833, NP0/C0G, 1,000.0V, 0.022µF±20%, Black Composite Case w/ Radial Wire (Ni/SnPb), Bulk



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Capacitance & Voltage Selection

Code	Size	T	W	G	S	d (Dia.)	Diel	Maximum Capacitance								
								25V	50V	100V	200V	500V	1KV	2KV	3KV	4KV
T2A	in	0.100	0.200	0.200	0.100	.020	NP0	223	153	902	502	302	152	561	221	560
	mm	(2.54)	(5.08)	(5.08)	(2.54)	(0.51)	X7R	334	224	125	563	303	103	262	391	121
T2B	in	.100	.200	.200	.170	.020	NP0	223	153	902	502	302	152	561	221	560
	mm	(2.54)	(5.08)	(5.08)	(4.32)	(0.51)	X7R	334	224	124	563	303	103	262	391	121
T2C	in	0.100	0.200	0.200	0.200	0.020	NP0	223	153	902	52	302	152	561	221	560
	mm	(2.54)	(5.08)	(5.08)	(5.08)	(0.51)	X7R	334	224	124	563	303	103	262	391	121
T3A	in	0.100	0.300	0.300	0.200	0.020	NP0	603	503	283	163	103	682	222	102	301
	mm	(2.54)	(7.62)	(7.62)	(5.08)	(0.51)	X7R	105	105	394	224	104	123	472	102	221
T3B	in	0.150	0.300	0.300	0.200	0.020	NP0	823	623	423	343	203	133	432	222	561
	mm	(3.81)	(7.62)	(7.62)	(5.08)	(0.51)	X7R	563	125	824	464	241	563	203	332	102
T3C	in	0.250	0.320	0.300	0.200	0.020	NP0	823	683	483	373	273	183	822	362	102
	mm	(6.35)	(8.13)	(7.62)	(5.08)	(0.51)	X7R	155	155	94	624	404	124	393	822	822
T3D	in	0.275	0.350	0.400	0.300	0.020	NP0	124	104	803	623	503	333	153	562	152
	mm	(6.99)	(8.89)	(10.16)	(7.62)	(0.51)	X7R	225	225	165	105	724	274	732	153	472
T4A	in	0.250	0.420	0.400	0.300	0.025	NP0	154	124	104	683	563	393	163	103	272
	mm	(6.35)	(10.67)	(10.16)	(7.62)	(0.64)	X7R	335	305	205	125	724	334	753	223	562
T4B	in	0.300	0.450	0.500	0.300	0.025	NP0	224	224	164	124	783	563	293	103	392
	mm	(7.62)	(11.43)	(12.7)	(7.62)	(0.64)	X7R	445	45	305	25	125	564	144	333	103
T5A	in	0.100	0.500	0.500	0.400	0.025	NP0	334	184	14	683	413	273	682	392	152
	mm	(2.54)	(12.7)	(12.7)	(10.16)	(0.64)	X7R	475	405	125	724	404	104	333	822	222
T5B	in	0.150	0.500	0.500	0.400	0.025	NP0	304	254	184	124	803	473	103	822	822
	mm	(3.81)	(12.7)	(12.7)	(10.16)	(0.64)	X7R	555	505	335	155	724	224	683	203	562
T5C	in	0.200	0.500	0.500	0.400	0.025	NPO	304	254	184	144	104	683	223	123	332
	mm	(5.08)	(12.7)	(12.7)	(10.16)	(0.64)	X7R	555	505	275	225	105	394	104	303	103
T5D	in	0.250	0.500	0.500	0.400	0.025	NPO	304	254	184	144	104	823	273	153	392
	mm	(6.35)	(12.7)	(12.7)	(10.16)	(0.64)	X7R	555	505	275	225	105	474	104	223	103
T5E	in	0.300	0.520	0.500	0.400	0.025	NPO	304	254	224	154	104	823	333	153	492
	mm	(7.62)	(13.21)	(12.7)	(10.16)	(0.64)	X7R	555	505	275	225	105	564	154	473	153
T5F	in	0.400	0.600	0.700	0.500	0.025	NPO	424	324	224	184	124	104	563	203	822
	mm	(10.16)	(15.24)	(17.78)	(12.7)	(0.64)	X7R	625	445	405	305	225	105	274	683	222
T6A	in	0.375	0.650	0.700	0.600	0.025	NPO	564	484	334	224	204	154	823	333	153
	mm	(9.53)	(16.51)	(17.78)	(15.24)	(0.64)	X7R	106	805	525	485	305	125	474	124	333
T6B	in	0.300	0.620	0.500	0.500	0.025	NPO	394	304	224	184	124	104	563	223	103
	mm	(7.62)	(15.75)	(12.7)	(12.7)	(0.64)	X7R	705	605	405	305	205	684	274	683	183
T7A	in	0.200	0.700	0.400	0.500	0.025	NPO	334	274	184	154	114	823	333	153	472
	mm	(5.08)	(17.78)	(10.16)	(12.7)	(0.64)	X7R	625	505	335	255	125	474	154	393	103
T7B	in	0.300	0.720	0.700	0.600	0.025	NPO	684	504	404	304	224	184	823	393	183
	mm	(7.62)	(18.29)	(17.78)	(15.24)	(0.64)	X7R	126	106	725	565	335	125	474	124	333
T7C	in	0.375	0.750	0.800	0.700	0.025	NPO	684	564	474	394	294	274	124	473	273
	mm	(9.53)	(19.05)	(20.32)	(17.78)	(0.64)	X7R	156	126	985	625	425	225	684	224	473
T8A	in	0.350	0.820	0.700	0.700	0.025	NPO	624	564	474	374	284	224	124	473	273
	mm	(8.89)	(20.83)	(17.78)	(17.78)	(0.64)	X7R	126	106	825	565	405	225	684	224	473