Filtered Arrays

XD... Type

FEATURES

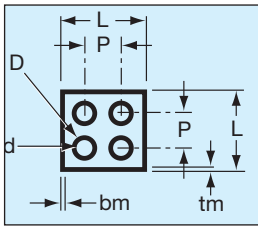
- To be used beneath a connector
- Provide an EMI filtered signal line between electronic modules
- Effective insertion loss from 1MHz up to ~ 1GHz
- Surface mount compatible

HOW TO ORDER

XD	06	Z	F	0153	K	--
AVX Style	**Size**	**Class**	**Voltage**	**Capacitance**	**Tolerance**	**Packaging**
XD	03 06 07	C = NP0 Z = X7R	F = 200 J = 500	EIA code on 3 or 4 digits	NP0 F = ±1% G = ±2% J = ±5% K = ±10% X7R J = ±5% K = ±10% M = ±20%	SUFFIX Burn-in 100% 168H = T5 Burn-in 100% 48H = T3 No burn-in = --

STYLE & DIMENSIONS

millimeters (inches)



TYPES	L	P	D	d	bm maxi	Thickness maxi
XD07 (4 capacitors)	7.00 ± 0.15 (0.275 ± 0.006)	2.54 (0.100)	1.70 ± 0.15 (0.067 ± 0.006)	1.00 ± 0.10 (0.039 ± 0.0039)	0.3	2mm
XD06 (4 capacitors)	6.00 ± 0.15 (0.236± 0.006)	2.54 (0.100)	1.70 ± 0.15 (0.067 ± 0.006)	1.00 ± 0.10 (0.039 ± 0.0039)	0.3	2mm
XD03 (2 capacitors)	6.00 x 3.00 ± 0.15 (0.236 x 0.118 ± 0.006)	2.54 (0.100)	1.70 ± 0.15 (0.067 ± 0.006)	1.0 ± 0.10 (0.039 ± 0.0039)	0.3	1.5mm

Terminations: Silver – Palladium – Platinum, on 4 or only 2 sides of the array

CAPACITANCE vs VOLTAGE TABLE

Cap. Range (each cap.)	X7R		NP0	
	200VDC	500VDC	200VDC	500VDC
XD07...	33nF → 120nF	4.7nF → 18nF	470pF → 1500pF	220pF → 620pF
XD06...	15nF → 68nF	2.2nF → 10nF	220pF → 750pF	120pF → 330pF
XD03...	8.2nF → 39nF	1nF → 4.7nF	180pF → 390pF	82pF → 180pF

ELECTRICAL CHARACTERISTICS

Dielectric Class Temperature Coefficient	X7R ΔC/C ≤ ± 15% (-55 +125°C)	NP0 0 ± 30ppm/°C
Climatic Category	55 / 125 / 56	55 / 125 / 56
Rated Voltage (U_R) Test Voltage (U_e)	200 VDC 500VDC 2 x U_R 1.5 x U_R	200VDC 500VDC 2 x U_R 1.5 x U_R
Tangent of Loss Angle - DF Insulation Resistance	tg δ ≤ 250(10^{-4}) C ≤ 10nF = Ri ≥ 100 GΩ C > 10nF = Ri x C ≥ 1000s	tg δ ≤ 15(10^{-4}) Ri ≥ 100 GΩ