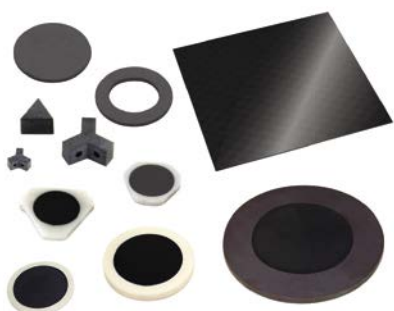
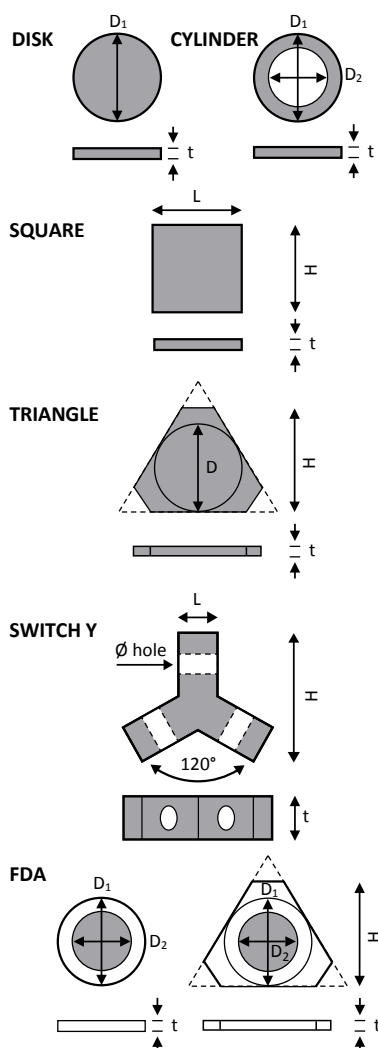


IRON GARNET Y - Gd - Dy - Al

YTTRIUM - DYSPROSIUM or GADOLINIUM - DYSPROSIUM
or ALUMINUM - DYSPROSIUM



DIMENSIONS mm (inches)

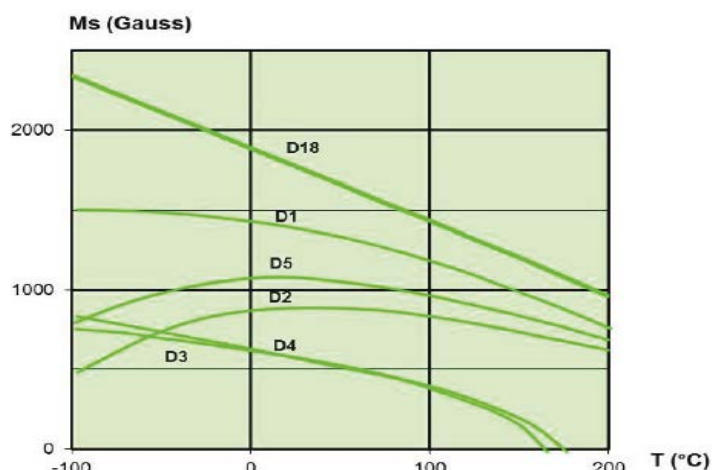


Type	M _s (Gauss) ±5%	T _c (°C)	γ _{eff}	ΔH (Oe) +20%	ΔH _{eff} (Oe)	ΔH _k (Oe)	ε ±5%	tanδ 10 ⁻⁴ max	α 10 ⁻³ /°C ±0.2
D18	1760	280	2.02	85	54	18	15	2	2.2
D1	1400	270	2	110	41	14	15.5	2	1.4
D5	1070	270	2.02	150	55	18	15.5	2	0.5
D2	900	270	2.01	185	63	20	15.5	2	0.8
D3	590	175	2	85	29	10	14.5	2	3.5
D4	580	170	2	140	56	19	14.4	2	3

Model	Dimensions D ₁ , H, L ±0.05 (0.002) t ±0.02 (0.001)	Min.		Standard / Typical		Max.	
		mm	(inches)	mm	(inches)	mm	(inches)
Disk / Cylinder	D ₁	1	(0.039)	-	-	70	(2.756)
	D ₂	0.6	(0.024)	-	-	65	(2.559)
	t	0.2	(0.008)	-	-	16.05	(0.632)
Square	L	0.6	(0.024)	-	-	50.80 or 100	(2.000 or 3.937)
	H	0.6	(0.024)	-	-	50.80 or 35	(2.000 or 1.378)
	t	0.2	(0.008)	-	-	-	-
Triangle	D	2.5	(0.098)	-	-	22	(0.866)
	H	2.5	(0.098)	-	-	30	(1.181)
	t	0.2	(0.079)	-	-	16.05	(0.632)
Switch Y	L	on request		-	-	on request	
	H	on request		-	-	on request	
	t	on request		-	-	on request	
	Ø hole	0.5	(0.020)	-	-	on request	
FDA	D ₁	2.3	(0.091)	-	-	70	(2.756)
	D ₂	1.3	(0.051)	-	-	65	(2.559)
	t	0.6	(0.024)	-	-	16.05	(0.632)
Finish Ra		0.1 μm	(0.004 μ")	0.8 μm	(0.031 μ")	As fired	
Metal. Thickness	Except FDA	-	-	7-14 μm	(0.276-0.551 μ")	-	-

Other dimensions on request

Ms vs TEMPERATURE CURVES

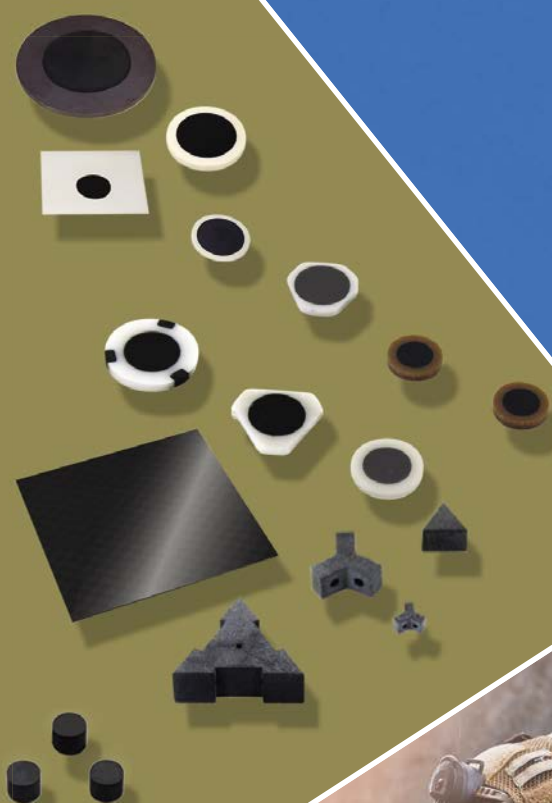


HOW TO ORDER (dimensions in mm):

Example: D18/E16 D19.35x15.35x0.80 Ra0.4

D18	/	E16	D	19.35	x	15.35	x	0.80	Ra0.4
Ferrite type See Y - Gd - Dy Al family		Additional material for FDA Ferrite Dielectric	Shape D: Disk C: Cylinder S: Square T: Triangle Y: Switch Y	Dimension 1 Diameter for D Ext. diameter (D ₁) for C Length for S Incircle diameter for T Length for Y For FDA only Ext. diameter (D ₁) for D Incircle diameter (D ₁) for T		Dimension 2 Thickness for D Int. diameter (D ₂) for C Height for S Height for T Height for Y For FDA only Int. diameter (D ₂) for D Int. diameter (D ₂) for T		Dimension 3 Thickness for C Thickness for S Thickness for T Thickness for Y For FDA only Thickness for D Thickness for T	Options CF: Chamfer R: Radius Ra: Surface finishing Excepting FDA M: Metallization Dxxx : Ø Hole for Switch Y

FERRITES & FDA



SELECTION GUIDE

FERRITES & FDA

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	Yttrium - Gadolinium (Y - Gd)	13
	Yttrium - Calcium - Vanadium - Indium Or Zirconium (Y - Ca - V - In or Zr)	14
	Yttrium - Aluminum (Y - Al)	15
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	Yttrium - Calcium - Vanadium - Zirconium - Gadolinium (Y - Ca - V - Zr - Gd)	17
	Yttrium - Dysprosium or Gadolinium - Dysprosium or Aluminum - Dysprosium (Y - Gd - Dy - Al)	18
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IRON SPINEL	Lithium - Zinc - Titanium - Manganese - (Cobalt) (Li - Zn - Ti - Mn - (Co)	22
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NEW EPSILON 21	New groundbreaking high Epsilon microwave ferrite designed specifically for isolator and circulator applications	24

DIELECTRIC RESONATORS

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	E2000 Series	High Q factor for high stability DRO designs. Mass-production capacity
	E3000 Series	High linearity of frequency with temperature
	E4000 Series	Very High Q factor for filter designs
	E5000 Series	High dielectric constant for reduced dimension systems
	E6000 Series	High Q factor for low frequency applications
	E7000 Series	Ultra High Q factor for filter designs

COAXIAL RESONATORS

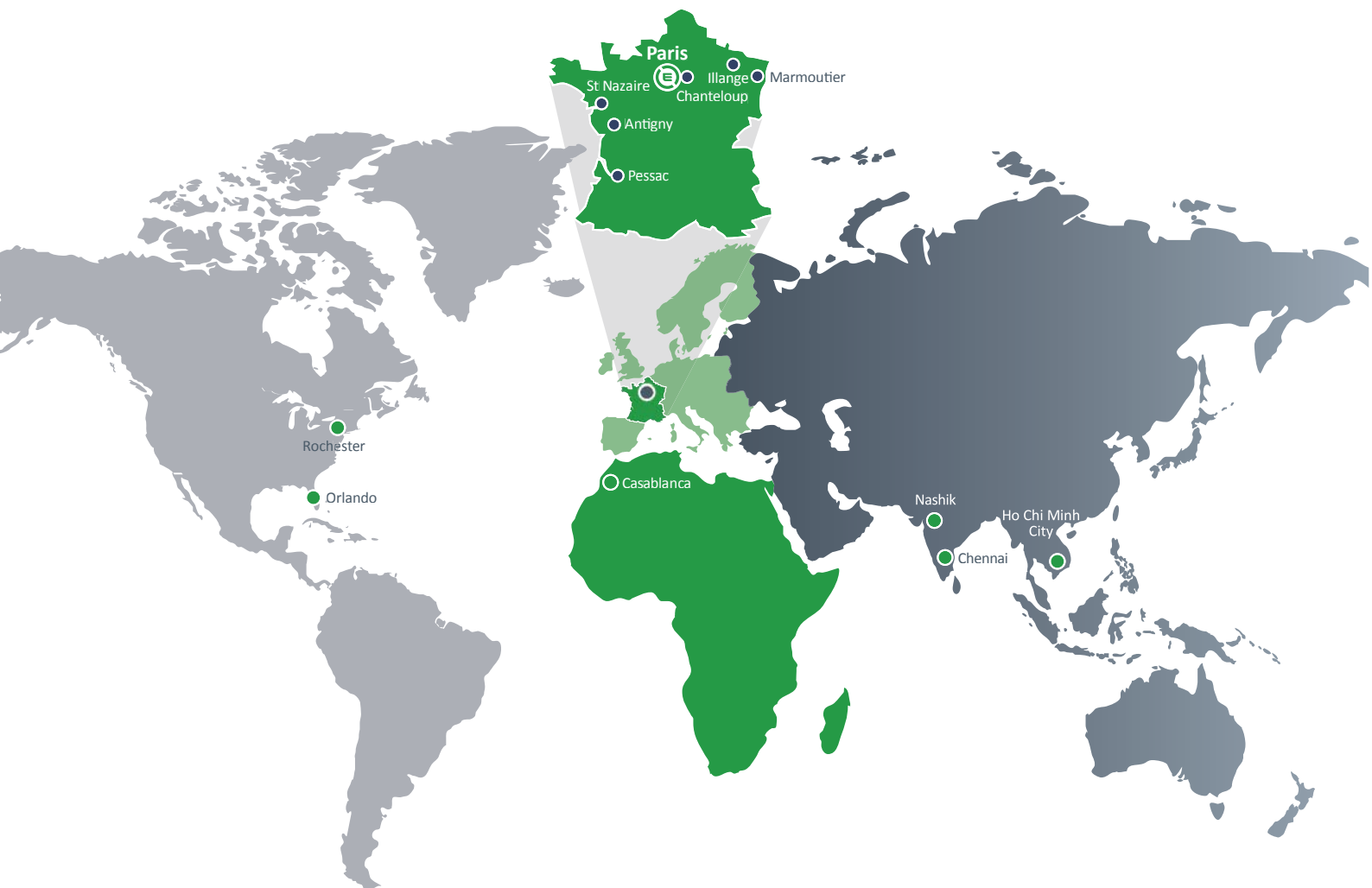
Reference	Main characteristics	Page
	Basic properties	Resonance effect origins - Resonant frequency - Impedance - Quality factor
	User guide	How to order - Materials and Applications - Frequency range & general characteristics - Q factor - Dimensions & Impedance - Connection dimensions

Microwave Materials

Ferrites, Dielectric & Coaxial Resonators



A Worldwide presence



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