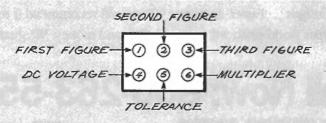
Capacitor Dot Code

repai TVs and radios and have occasionally come across capacitors that use a dot code to indicate their value. I've been unable to find a listing of these dot codes in any of the data books I have and I'm not even sure if this method of marking capacitor values is used any longer. How do you read the capacitor dot codes?—A. Brownstone, Philadelphia, PA

I am n't seen dot codes used in years but fortunately I never throw anything out. This information was sent by W. Saliba of Middleton, MA and you should save it because I don't know where else you'll be able to find it.

There were two dot codes used: a three-dot and a six-dot system. Since the former is only a subset of the latter, I'm listing only the six-dot system. The EIA introduced this system for mica capacitors and if you see only three dots, the capacitor is understood to be rated at 500 volts DC with a +/- 20% tolerance.

The complete dot code is shown in Fig. 1. You'll most likely see this kind of coding only in old radios and other vintage equipment. A similar marking system was also used for inductors but I haven't been able to find it anywhere.



COLOR	FIGURE	MULTIPLIER	VOLTS	TOLERANCE
BLACK	0	/		
BROWN	/	10	100	1%
RED	2	100	200	2%
ORANGE	3	1000	300	3%
YELLOW	4	10,000	400	4%
GREEN	5	100,000	500	_
BLUE	6	1,000,000	600	6%
VIOLET	7	10,000,000	700	7 %
GRAY	8	100,000,000	800	8%
WHITE	9	1,000,000,000	900	9%
GOLD	_	0./	1,000	5%
SILVER		0.0/	2,000	10%
NO COLOR	1	-	500	20%

FIG. 1—CAPACITOR DOT-CODE SYSTEM. If you see only three dots, the capacitor is understood to be rated at 500 volts DC with a +/- 20% tolerance.