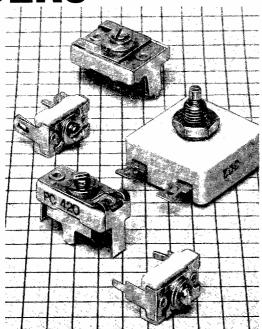
VARIABLE COMPRESSION MICA TRIMMERS AND PADDERS



STANDARD TRIMMERS

These variable compression mica trimming capacitors are produced by stacking mica dielectric capacitance units. A capacitor section consists of a thin film of mica between two spring loaded nonferrous metal conducting plates; the stacked units are mounted within a ceramic container, or on a ceramic base. By alternating metal plate, mica film, metal plate, etc., and paralleling these units, any desired capacitance within the physical limitations of the ceramic base can be achieved. A panhead adjusting screw (#2-64, UNS-2) thread for types 40 and 42 and a (#4-64, UNS-2) thread for type 46 is inserted through the center holes of the plates, the mica films, and the threaded bushing. This screw provides variable compression on the formed metal plates, varying the plate separation capacitance.

Arco trimming capacitors are treated for resistance to humidity and for permanence of capacity setting.

The base is made of the lowest loss ceramic dielectric available and the mica is clear India Ruby.

The soldering lugs may be bent in any position without affecting the capacitance setting.

Trimmers shown are standard sizes and capacities.

Standard dimensional adjustment tolerance is \pm 1/32" or \pm 3½°, whichever is applicable. Terminals having several lugs can be spotwelded together to prevent separation and flaring.

Specifications

OPERATING TEMPERATURE: -35°C to +85°C

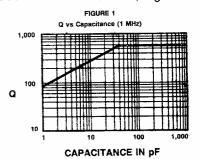
MAXIMUM CAPACITANCE: Equal to, or greater than the value indicated in the table. When the adjusting screw is at a tight position (with tight being defined as 134 pound-inches). The maximum capacitance will be equal to or greater than the value indicated in the table.

MINIMUM CAPACITANCE: Equal to, or less than, the value indicated in the table. When the adjusting screw is rotated 3 turns from tight position, the maximum capacitance will be equal to or less than the value indicated in the table.

DC VOLTAGE:	Rated Voltage	Test Voltage
Type 30	250	500
Types 40, 42, 46	175	350
Type 3DM	500	1000

INSULATION RESISTANCE at 25°C: 100,000 meg-ohms minimum.

Q at 1 MHz: See Q curve, Figure 1.



DISSIPATION FACTOR at 1 kHz: > 1000 pF Max; D.F. . 004 max. CAPACITANCE CHANGE WITH TEMPERATURE at Working Point*: TYPE $30: = \pm (2.5\% + 0.3 \text{ pF})$ TYPE $40, 42, 46: = \pm (1.5\% + 0.3 \text{ pF})$ CAPACITANCE DRIFT WITH TEMPERATURE at Working Point*: TYPE $30: = \pm (2.0\% + 0.5 \text{ pF})$ TYPE $40, 42, 46: = \pm (1.5\% + 0.5 \text{ pF})$ * Screw adjusted to $\frac{1}{4}$ to $\frac{1}{2}$ turn from

TYPE DESIGNATION

ST 0423

 Mounting Style ST — Standard Bracket Mounting Style

PC — Printed Circuit Mounting Style

C — Variation of Printed Circuit Mounting Style

Indicates shape, construction, dimensions and capacitance.



Standard Range Trimmers

NOTE: All dimensions in inches.

Type 40 - MINIATURE TRIMMER Voltage 350 VDCT — 175 VDCW

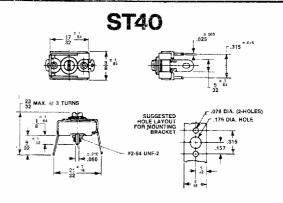
TYPE 40	GUARANTEED RANGE		
PART NUMBER	At Tight Cap. Will Be More Than pF.	At 3 Tunis Open Cap. Will Be Less Than pF.	
400 402 403 404 405 406 407 408	7 20 45 95 90 115 285 340	2.5 4 5 12 16 25 55 90	

Type 42 - MIDGET TRIMMER Voltage 350 VDCT — 175 VDCW

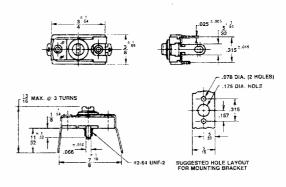
TYPE 42	GUARANTEED RANGE		
PART NUMBER	At Tight Cap. Will Be More Than pF.	At 3 Turns Open Cap. Will Be Less Than pF.	
420	12	2.5	
421	25	3.5	
422	40	7	
423	100	16	
424	150	25	
425	200	40	
426	250	55	
427	300	75	
428	350	95	
429	400	1 15	
4210	450	130	
4211	500	150	
4212	550	170	
4213	600	200	
4214	650	220	
4215	700	240	

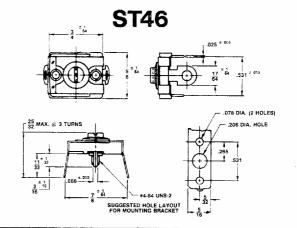
Type 46 - STANDARD TRIMMER
Voltage 350 VDCT - 175 VDCW

TYPE 46	GUARANTEED RANGE		
PART NUMBER	At Tight Cap. Will Be More Than pF.	At 3 Tums Open Cap. Will Be Less Than pF.	
460	15	3	
461	30	.5	
462 463	80	10	
464	180 280	20 45	
465	380	45 75	
466	480	105	
467	580	140	
468	680	175	
469	790	215	
4610	900	260	
4611	1000	300	
4612	1100	330	
4613	1200	360	
4614	1300	380	
4615	1400	420	



ST42





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"PC" TRIMMERS
The Arco trimmer capacitors, Types 40, 42, and 46, have been adapted for printed circuit techniques. Thus the holes in the terminal lugs are eliminated. The printed circuit terminals have greatly increased spring action, allowing the trimmer to be "snapped in" the printed circuit board and held firmly until soldered. The mounting lug portion of the trimmer has also been modified to facilitate positioning and support of the unit. Drawings of the trimmers and mounting layout are available upon request.

This printed circuit style is designated by the prefix letters "PC" preceding the regular part number. All values listed are available in the PC style.

"C" TRIMMERS

Type "C" trimmer is a "stand off" variation for printed circuit application. Instead of the raised staple, the Type "C" trimmer has .062" width notched terminals to raise the trimmer from the printed circuit board .125 inches. Designate type "C" by preceding the part number with the letter C.

Example: 426 trimmer in Type "C", would become C426.

PC Style Printed Circuit Trimmers

